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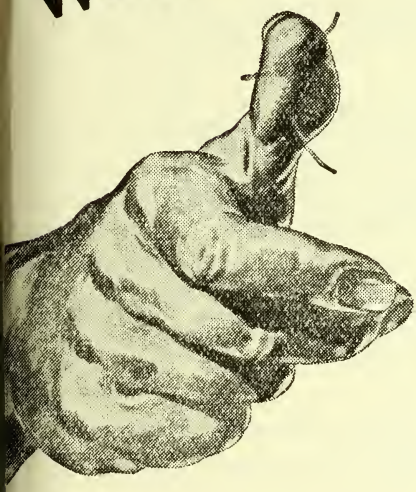

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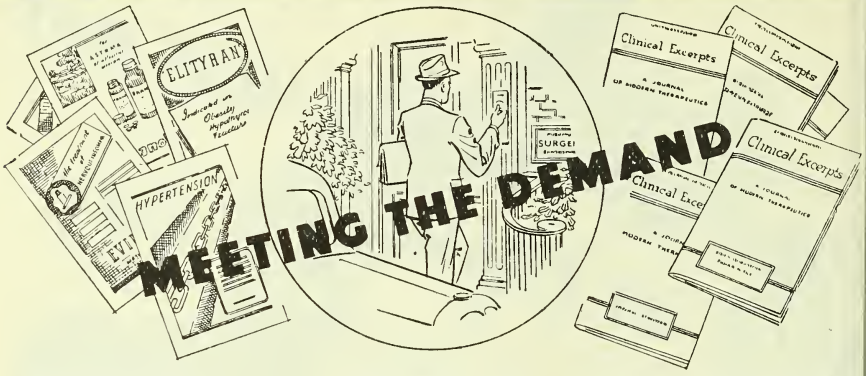

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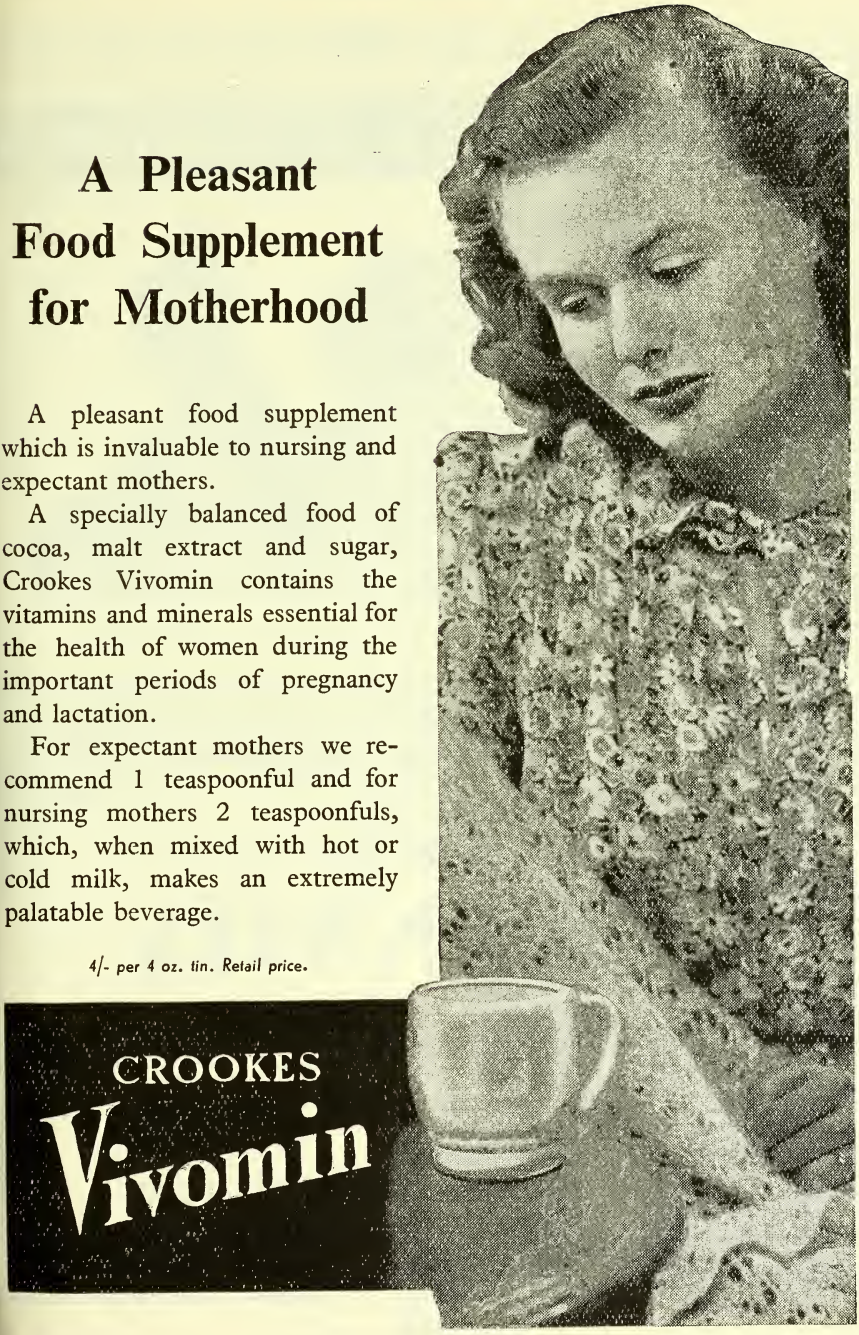

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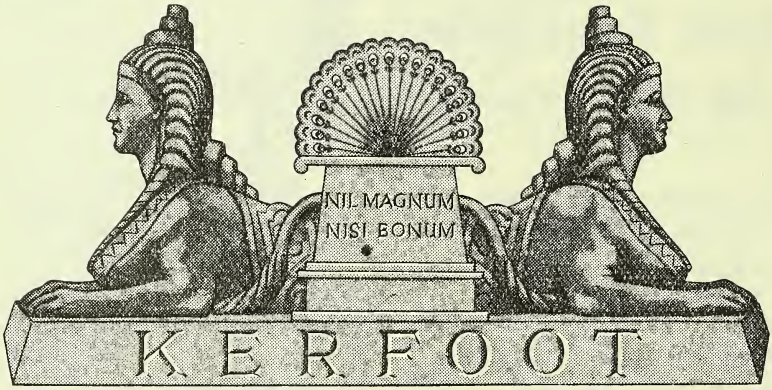

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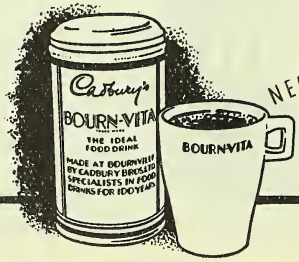

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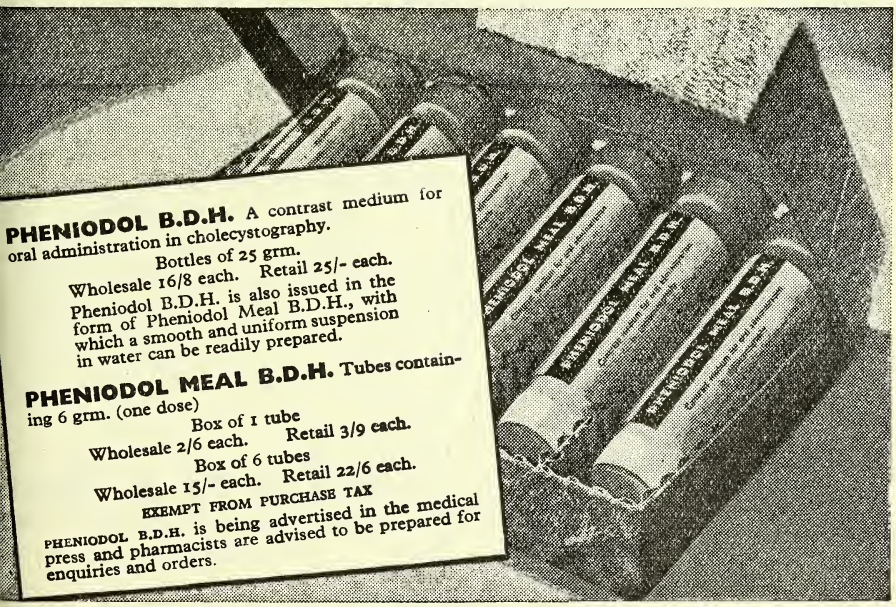
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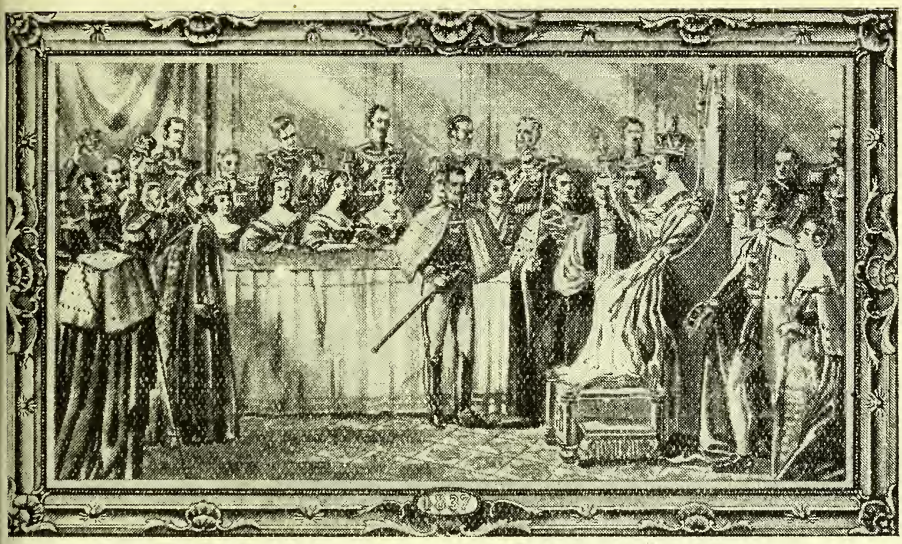

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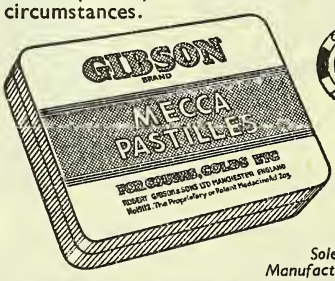

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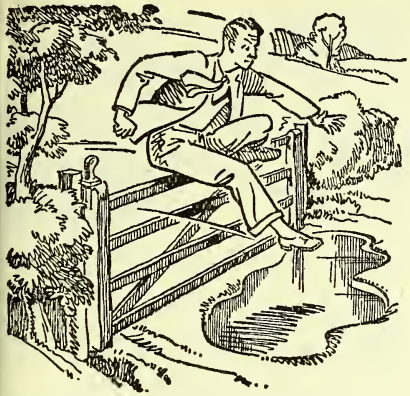

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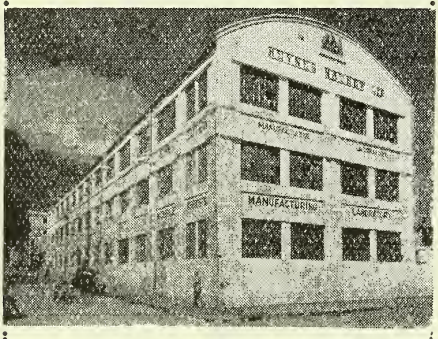

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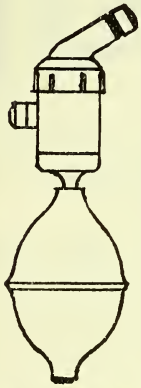

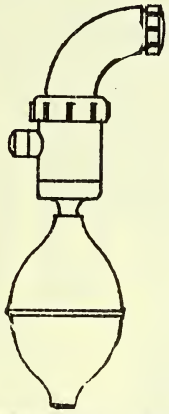

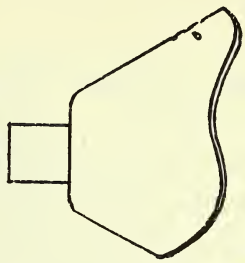

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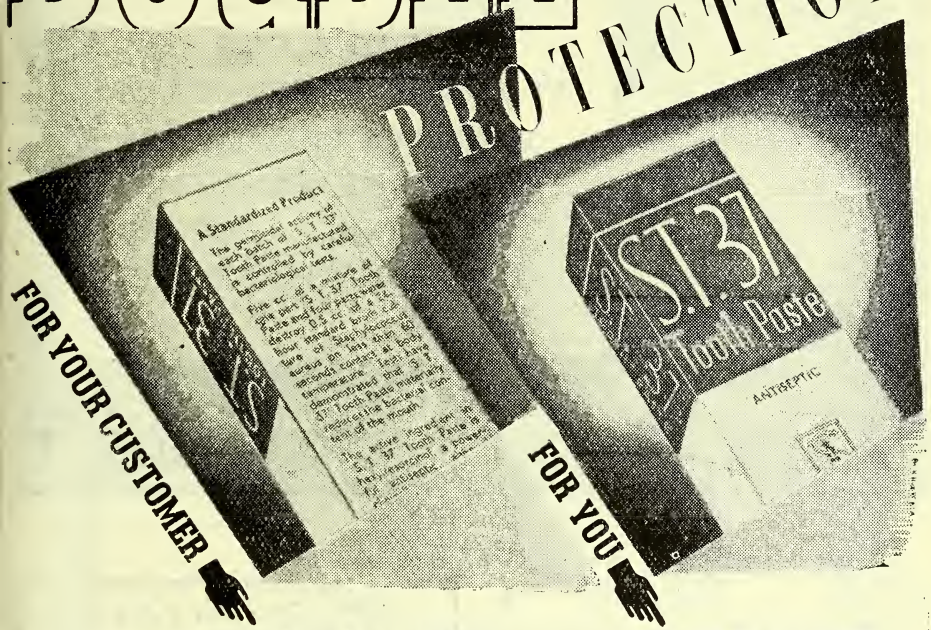

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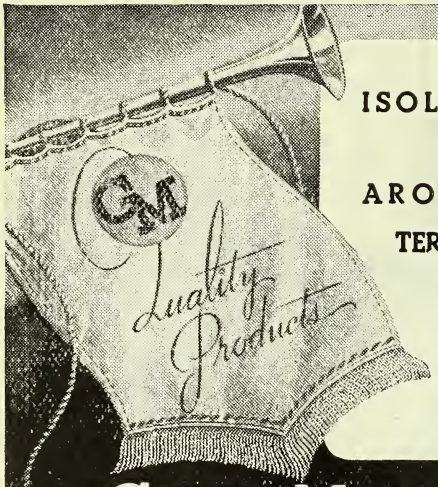

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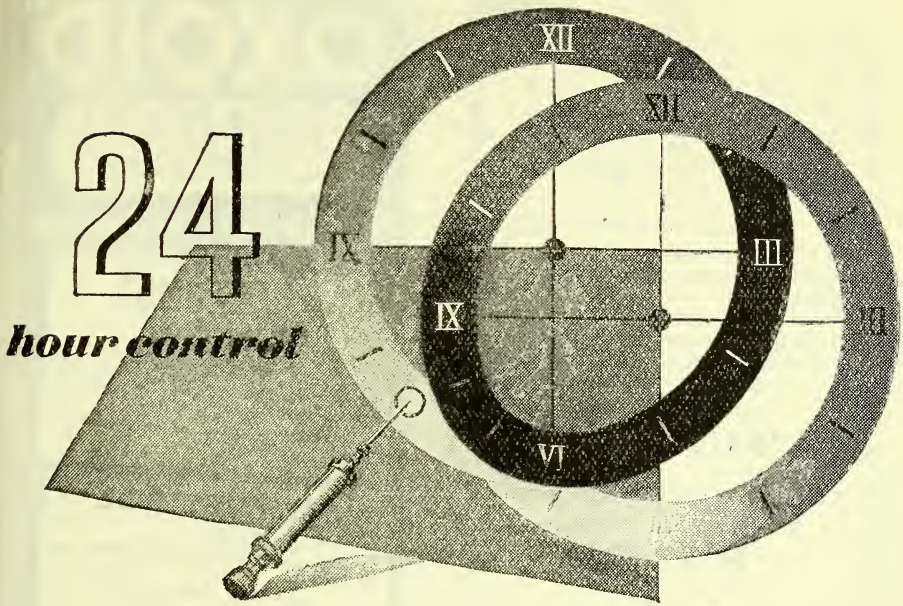

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NEWS OF THE WEEK

Streptomycin for London Patient.—A supply of streptomycin was flown to Britain from America recently for the treatment of a patient in Middlesex Hospital, London.

Prague International Fair.—The first post-war fair will take place in Prague from September 15 to 22, 1946. The international character of the fair will be accentuated by official exhibitions of foreign countries, apart from numerous displays of individual foreign firms.

Chester Branch Visits North Wales.—Members of the Chester Branch of the Pharmaceutical Society held its first social event since the war on Wednesday, July 10, when the members visited Llangollen, the Horse-shoe Pass and Rhytalog, where dinner was served. The event was organised by the social committee, under the chairmanship of Mr. R. Park-Taylor.

Scottish Exports List.—Pharmaceutical supplies, cosmetics, perfumes, cod liver oil, weed killers and insecticides are included in a list of goods available for export, prepared by the Board of Trade in Scotland. Details of the manufacturers concerned may be obtained from the Regional Export Offices, 95 Bothwell Street, Glasgow.

Film Controls Relaxed.—The Board of Trade has issued a formal general licence decontrolling from July 22, all types of 35-mm. cinematograph film (except newsreel prints) and all types of substandard cinematograph film including 16-mm. sound prints. Copies of the licence (S.R. & O., 1946, No. 1,130) are obtainable from H.M. Stationery Office, London, W.C.2.

Sheffield and Doncaster Apprentices.—Indentured apprentices at present serving in the area covered by the Sheffield and Doncaster Branches of the Pharmaceutical Society who wish to enter for the Stiles Trust examination should communicate with the Secretary, Sheffield Branch (Mr. S. Durham, M.P.S., 29 Stephen Hill Road, Sheffield, 10), before August 1, when the set questions and instructions will be forwarded to them.

Birmingham Theatre Party Plans.—The Birmingham Pharmaceutical Association has planned a high tea and theatre party (to see a performance of "Henry V"), to take place at Stratford-on-Avon on August 21. Numbers are limited, and members wishing to join the party should communicate with Mr. D. J. Rushton (secretary), 1,088 Stratford Road, Birmingham, 28, not later than August 7. High tea and theatre tickets cost 10s. each, and coach tickets 6s. 6d. each.

White Spirit Standard Amended.—An amendment slip has recently been issued by the British Standards Institution to B.S. 245 (white spirit), by which the requirement limiting the residue after spontaneous evaporation has been deleted. An alternative method for the determination of volatility, to be incorporated in an Appendix, for use in routine testing as a rough approximation, is described. Copies of the slip, No. P.D. 474, may be obtained from the Institution, 28 Victoria Street, London, S.W.1.

New Soap Coupons.—The coupons available during ration period No. 1 of 1946/47 are the two upright pairs of small squares numbered K 1/2 and 3/4 on the large square No. 1. In Ration Books R.B.1 and R.B.4 the coupon numbered 1/2 is worth one ration and the coupon numbered 3/4 two rations of soap. The two whole coupons in Ration Book R.B.2 are each worth two rations of soap. The provisions of the Soap (Licensing of Manufacturers and Ration) (No. 2) Order, 1945, as amended, have been re-enacted with the amendments necessary to provide for the use of the new ration documents valid for the rationing year beginning on July 21.

Penicillin for Dairy Cattle.—Penicillin is shortly to become available to veterinary surgeons for the treatment of bovine mastitis and other diseases following an arrangement made recently between the Ministry of Supply and the Ministry of Agriculture and Fisheries. Veterinary surgeons wishing to obtain supplies during the period August 1, 1946, to October 31, 1946, are advised by the Ministry to apply to the General Secretary, National Veterinary Medical Association, 36 Gordon Square, London, W.C.1, for the necessary application form on which they will be asked to state the name of their suppliers. Upon approval of the application, the supplier mentioned will be licensed under the Control of Penicillin (No. 1) Order, 1946 to affect the supply.

Perfumery Organisation to Continue. At the general meeting of the Association British Representatives of Grasse Perfum Raw Material Manufacturers, held recent it was decided unanimously to continue t Association for an indefinite period. It v felt that, so long as there was Governm Control of the importation of aromatic r materials, the Association had a function perform in co-operation with manufactur concerned, the French authorities, and terested trade bodies. The officers a executive committee were re-elected as f lows: Mr. F. E. Shoninger (Antoine Chi Ltd.), *Chairman;* Mr. J. R. A. Evans (W son & Mansfield, Ltd.), *Deputy-chairma* Mr. Norman Worth (Natural & Synthe Perfumery Essence Co.), *Secretary. Exe tive Committee*: Messrs. A. W. Mu (Roure-Bertrand Fils & Justin Dupon J. R. A. Evans (Wilson & Mansfield, Ltd G. W. Walker (P. Samuelson & Co.); N man Worth (Natural & Synthetic Perfu ery Essence Co.); F. E. Shoninger (Anto Chiris, Ltd.).

London B.Pharm. Examination.—T following candidates were successful in London University B.Pharm. examinati 1946: *External;* Bedford, June Cynth Bogush, Bernard; Bragg, Dorrell R mond; Camp, Winifred Elizabeth; Carl John Edward; Chilton, James; Dalt Dorothy Elizabeth; Dalton, Margaret Eli beth; Davison, Alan Nelson; D'Este Eas John Albert; Fish, Francis; Harris Gwyneth Margot; Hunt, George; Ing Eric Noel; Lapworth, Harold; Lov Derek Evans; Martin, Bernard Ke Piercy, Barbara Elinor; Taberner, M Margaret; Talman, Frank Arthur Jo Tubb, Donald Arthur; Weston, Rosem Elizabeth; Young, Dorothy Elizabe *Internal;* Anderson, Stewart Norma Carpenter, John Robert; Johnson, C Alfred; Nurock, Myfanwy; *Oberweg Karl Heinz;* Priest, Lewis Hermann; R dall, Phyllis Mary; Wall, Bernard Lew *Webb, Roy Arthur; Williams, Garth.* T students whose names are printed in ital have passed the examination before co pleting a full course of study as inter students, and are therefore not yet qualif to receive the degree.

Purchase Tax Exemptions. — Unc amendments proposed by the Chancellor the Exchequer to the Finance Bill, and su ject to the approval of Parliament, goo of certain classes are to be exempted fr purchase tax. The alterations apply to goo delivered on sale, or appropriated

etail trade or similar purposes, on or fter July 22, and to imported goods ntered with the Customs or delivered from onded warehouse for home consumption n or after that date. In sales by registered unregistered persons the alterations apply goods actually dispatched on or after at date, irrespective of the date when the ontract of sale was made or the goods were voiced. The goods listed include electric y batteries of not more than six volts; rmin traps; projectors for slides (includ- g projectors for film-strips but not includ- g epidiascopes nor cinematograph pro- ctors); lenses, and other parts of, and cessories to, projectors for slides (the emption frees from tax all projectors cept projectors for substandard cinema- graph films); cinematograph films, film- ips and lantern slides intended for ex- bition to the public for exhibition by eans of a projector (unexposed sensitised otographic films or plates remain charge- le at 33⅓ per cent).

U.S. Streptomycin Research.—Research the use of streptomycin in the United ates is being supervised by the Committee Chemotherapeutics and Other Agents of e National Research Council, Boston, ass., according to an official statement ued by the Committee recently. The search is being directed primarily to termining effectiveness; methods of ad- nistration; dosage; and toxicity in cer- in infections which are not susceptible treatment with other antibacterial bstances. The effect of streptomycin on e following diseases is to be investi- ted:— Gram-negative bacillary infec- ns of the genito-urinary tract resistant to phonamides; Gram-negative bacillary ectious with bacteræmia; *Hæmophilius luenzæ* infections, including meningitis, eumonia, middle-ear disease, and yngotracheitis; Friedländer's bacillus *lebsiella pneumoniæ*) pneumonia; phoid; salmonella infections (para- phoid); acute brucellosis with bacteræ- a; tularæmia; bacterial endocarditis due gram-negative bacilli. Diseases which are t being investigated by the Committee at esent are:— Chronic idiopathic ulcera- e colitis; lupus erythematosis acutus dis- minatus; leucæmia; cancer; fever of un- own cause; rheumatic fever; and rheu- toid arthritis. A broader programme for study of tuberculosis cannot be under- en at present because of inadequate plies. The Committee intends to keep medical profession informed of the re- rch's progress.

IRISH NEWS

Mass Radiography for Dublin.—A mass radiography unit is to operate in Dublin under the control of the Public Health Department of Dublin.

Destroyed by Fire.—The laboratories, workshops, warehouse and office of Evans Sons Lescher & Webb (Ireland), Ltd., North Wall, Dublin, Eire, were completely destroyed by fire recently.

State Research Plans.—Plans for a State Institute for Industrial Research and Standards are contained in the Industrial Research and Standards Bill (1946), the second reading of which was recently introduced in the Dail. The chief functions of the Institute, as planned, will be to provide a more effective organisation for scientific and industrial research; to formulate standard specifications for industrial commodities and processes; and to test and analyse commodities intended for sale by the public. Provision is also made for the Institute to maintain scholarships in the subject of industrial research.

Irish Golf Tournament.—The Irish Chemists' Golfing Society held its annual three-day tournament at Bundoran, co. Donegal recently. The results were as follows:—Friday afternoon (A four-ball bogey competition): J. Gilmartin (7) and M. Leonard (20) 4 up. F. J. Roche (7) and T. R. Bourke (14) 3 up. Saturday morning: 18-hole four-ball (best ball): M. L. Cashman (13) and M. Fortune (18) 67½. T. J. Lynch (6) and W. P. Mullen (20) 68. H. McClelland (5) and J. A. Hurson (16) 68½. Saturday evening: 18-holes bogey singles: M. Costelloe (10) 1 up. Eric Massey (15) 1 down. H. McClelland (4) 2 down. S. J. Savage (8) 2 down. Sunday morning: Nine-hole four-ball bogey: J. Gilmartin (7) and W. P. Mullen (20) all square. M. G. Murphy (1) and J. A. Hurson (15) all square. S. J. Savage (7) and T. Bourke (14) all square. Sunday evening: (captain's prize): 18-hole strokes: M. L. Cashman (14) 72; D. Gillen (18) 73; E. MacManus (13) 73; P. McAuliffe (14) 75. Monday morning: 18-hole strokes: E. MacManus (12) 71; W. R. Such (18) 75; J. C. Walshe (19) 77; M. L. Cashman (11) 77. Monday evening: Scotch foursomes; J. Gilmartin and E. MacManus 71½. A. Walsh and J. Smyth 73½. A. W. Hughes and W. F. M. Keyes 75½. Novices' prizes.—Sunday afternoon: B. M. Laverty; Monday morning; T. C. Cassidy.

THE WEEK IN PARLIAMENT

By a Member of the Press Gallery, House of Commons

MONTHLY output of spectacle lenses in Britain for the past six months was given by the Minister of Supply of July 15 in answer to SIR HUGH LUCAS-TOOTH. MR. WILMOT said the monthly output of spectacle lenses for the seven four-week periods from November 24, 1945, to June 8, 1946, was as follows:—Pairs: 417,183; 337,075; 406,042; 431,483; 452,252; 420,630; 44,860. 5.9 per cent. was exported.

Soap Exports

Export of soap was the subject of a question to the President of the Board of Trade by MR. SIDNEY SHEPHARD on July 15, when he asked if the Minister was aware that Cussons, Sons & Co., Ltd., Kersal Vale, Manchester, had been granted a licence to export £100,000 value of toilet soap to the United States; and whether, in view of the recent cut in supplies to British housewives, he would cancel the licence and reserve all available supplies to the home market.

SIR STAFFORD CRIPPS: In December 1945, this company inquired whether a licence would be granted for the export of special toilet soap to the U.S.A. In view of the special advantages to the country's export trade the company was informed, after consultation with the Ministry of Food, that a licence would be granted. Application was not made for a licence, however, until July 2, and, as matters now stand, I am not prepared to grant the licence.

Advisers on Tax Removal

Establishment of an outside body to advise on the future removal of purchase tax from articles and goods was proposed by the Opposition in the House of Commons on July 17. At first Mr. Dalton turned down the idea, but later he promised to look at it again.

MR. OLIVER STANLEY, in a discussion of Mr. Dalton's purchase-tax concessions, had declared that he was not satisfied with the method of reducing purchase tax. If, for several years, large reductions in the tax were to be expected, they had not found the right way of going about it. He asked MR. DALTON whether, between now and the next Budget, he would see whether there could not be some machinery, which might start outside Parliament but would come before Parliament in the end, that would allow claims to be sifted.

The suggested procedure was supported by MR. SYDNEY SILVERMAN. Under the present system, he said, Members were picking out hard cases and moving amen ments on them. It became a kind of l tery as to who thought of something fir and in what kind of atmosphere the pa ticular amendment was moved, whether secured the approval of the House.

MR. DALTON replied that it was said t House of Commons should control finan and that Members of Parliament should allowed a voice. He had therefore sa that everyone should put down amendmer and he would listen to their speeches. Th was the democratic way to do it. It w difficult to have an advisory committee a sparate report. "One cannot let the things out." On purchase tax itself, said there was a strong case for it whic in his view, would continue strong for sor years to come, partly from the point of vi of revenue, partly as a check on inflatic and partly to pay for a large number desirable things they all wanted. "The pu chase tax is coming off in strips year year. We shall take if off necessary thin first, and next, I hope, off less necessa things. But it is better to pay tax on ar cles not of prime necessity rather than impose income tax on the small incomes wage earners and others who are not in position to meet it. I am against the dire taxation of the working classes. The on way I can see of deciding how we c gradually draw in our horns is that whoev is Chancellor of the Exchequer shall thi about it and propose a plan in the House

MR. DALTON promised to give furth consideration to the idea of an independe body to sift applications for remission.

Western Isles Sharks as Fat Source

A possible new source of fats and gelat was mentioned in the House on July 1 when MR. MALCOLM MACMILLAN asked t Minister of Food if he would investigate t practicability of utilising the liver oil a the fin gelatin of the large numbers of bas ing sharks in Western Isles waters, in vie of the present oil needs, and the heavy d mands on gelatin; and whether the o extractable from the basking sharks we suitable for soap making.

MR. JOHN STRACHEY: The oil obtainab from the basking shark is a valuable sour of vitamin A, and I should prefer to u any that can be obtained for this purpo rather than for soap making. I shall glad to investigate the possibility of furth exploiting this source of liver oil.

TOPICAL REFLECTIONS

Conference Chairman's Address

In his address from the chair of the British Pharmaceutical Conference (pp. 82-85), Mr. B. A. Bull has worthily sustained the high reputation of this series of pronouncements. Under the title "Pharmaceutical Development" he has brought together in concise form a considerable volume of information, much of which was previously confined to specialists. This information, occupying the central part of the address, will repay careful reading by everyone interested—as all of us should be—in processes of chemical manufacture. Students will obtain valuable hints from it, and pharmacists will perhaps find there the equivalent of a post-graduate course. The parts of the address that I prefer to select for comment, however, are in the opening and closing sentences. The first column of your abstract contains an interesting classification of the work of pharmacists. The work may briefly be summarised as: (1) Analytical control of pharmaceutical preparations; (2) works control of chemical manufacture; (3) supervision of large-scale manufacture of pharmaceutical preparations; (4) small-scale production of pharmaceutical preparations; (5) dispensing prescriptions. Mr. Bull's long experience of large-scale manufacture has not prevented him from recognising that "there is still scope for small-scale production of many pharmaceutical products, and much important development work is being carried out in the pharmacies attached to hospitals and institutions." He adds, possibly with regret: "In the main, the apparatus used by the dispensing pharmacist has changed little." Pharmacists in business may with advantage consider the implications of this remark. Those who have been settled for half a lifetime or more are, in my experience, often unwilling to admit a new method, and the apparatus needed for it (if any), even when it would demonstrably be an improvement on an existing method. It is a good principle not to turn over to a wholesale house work that can be done equally well in a pharmacy.

Attitude to Beginners

The other passage that I have selected from Mr. Bull's address occurs near the end. In it he makes wise suggestions for advising young people on the choice of careers. The emphasis, he believes, should be on usefulness rather than on romance, on keenness and persistence in face of disappointment. That is well said. Many of us can remember the strangeness of the atmosphere of apprenticeship in contrast to that of school; and even if apprenticeship is in future to be taken after qualification, a corresponding strangeness will be encountered by beginners in pharmacy. Nothing is more misleading than to give young people what may be called a child's-picture-book view of pharmacy. I welcome the chairman's expansion of the term "a good pharmacist" into "a good member of the pharmaceutical community and a good member of the general community." Something is lacking if the interests of a pharmacist end at the walls of a shop, hospital dispensary or office. Rightly trained, qualified men and women should be able to take some part, if not a leading part, in the work of general circles. On the subject of scholastic training, Mr. Bull gave a timely caution against an overloaded syllabus: he prefers knowledge "of a comparatively elementary nature," combined with understanding of first principles, to "acquaintance with an encyclopædic range of knowledge and little or no understanding of basic principles."

A Call for Assistance

The letters of Mr. Ernest A. Umney and Mr. G. A. Mallinson, on p. 96, calling attention to present demands on the Glyn-Jones Memorial Fund, merit sympathetic attention. I can well understand many of your readers asking how, with taxation at its present level, they can even consider a further claim for financial help. This view is natural. Week by week, and almost day by day, we read appeals for funds by many kinds of institutions—philanthropic, social, scientific and so forth. Whitaker's Almanack contains nearly thirty closely printed pages of names of societies, associations and similar bodies in the United Kingdom, and I suppose there are few of them that would not welcome additions to their funds. Last week the report of the Committee on the Provision for Social and Economic Research, summarised in the Press, stated that the existing financial provision for this research is inadequate: this is only one of many such instances. Another factor that tends to check personal benevolence is the arbitrary selection of causes for aid by means of Government grants: the natural impulse is to decide that as the taxpayers of the country are eventually responsible for this type of outlay, private subscriptions are unnecessary when they are not impossible.

Xrayser

BIRTH

BAYNES.—On July 12, Noran, the wife of Michael G. Baynes, Assistant, 26 Elmpark Avenue, Ranelagh, Dublin, of a daughter (Margaret Mary Teresa (Maeve)).

MARRIAGE

COOPER-PARRY.—In London, on June 29, John Noble, only son of Mr. Herbert Edward Cooper, M.P.S. (managing director, R. J. Reuter Co., Ltd., Slough), to Joyce Isobel, widow of Kenneth Parry, Sandy Lodge, Middlesex.

DEATHS

MILLER.—On July 15, Mr. John Wilson Miller, M.P.S., 211 Byres Road, Glasgow, W.2, aged eighty-five.

BERRIMAN.—On July 12, Mr. Francis John Berriman, M.P.S., c/o Pickering & Son, Royston, Barnsley, Yorks, aged sixty-four.

PHILLIPS.—At Hove, Sussex, on July 22, Mr. W. W. Phillips, aged seventy-four. In 1932 he founded Phillips Yeast Products, Ltd.

MACKAY.—On July 9, Mr. Angus Mackay, M.P.S., 193 The Broadway, West Hendon, London, N.W.9. Mr. Mackay qualified in 1921.

WHITE.—Recently, Mr. Arthur Frederick White, 23 The Cliffs, Heysham, Lancs. (a director of William White & Son, Ltd., manufacturing chemists, Bradford), aged eighty-six.

LONG.—On July 20, after a lengthy illness, Mr. G. H. Long, for the past twenty years a senior executive of H. R. Napp, Ltd., London. Mr. Long was associated with the chemical industry for most of his life. His passing will be regretted by his many friends in the trade and by the Masonic fraternity, of which he was a prominent member.

CROSLAND.—At Colby Lodge, Amroth, Pembrokeshire, Lieutenant-Colonel J. C. H. Crosland, chairman of Kay Bros., Ltd., Kayborough, Reddish, Stockport. Colonel Crosland was keenly interested in the welfare of ex-Servicemen, and from 1935 to 1946 was chairman of the Mobberley Conservative Association. For many years an officer of the 8th (Ardwick) Battalion of the Manchester Regiment, he commanded the second line of the battalion during the 1914-18 war.

SAUL.—At Barnside, West Wittering, Chichester, Sussex, on July 15, Mr. John Edward Saul, Ph.C., F.R.I.C., a director of Savory & Moore, Ltd., 143 New Bo Street, London, W.1, aged eighty-four. M Saul qualified as a chemist and druggist 1884, and passed the Pharmaceuti Chemist examination in the same year. was a personal friend of Mr. Michael C teighe and for thirteen years from 1889 w an examiner for the Pharmaceuti Society.

MILLAR.—While on holiday at Rothbu Northumberland, recently, Mr. John Mill M.P.S., 2 St. Johnswood Terrace, Westpa Road, Dundee, aged seventy-seven. M Millar served his apprenticeship with uncle (the late Mr. Hugh Gemmell, M.P. Ardrossan) and qualified in 1893. For so years he was with Treacher & Co., Bomb returning to this country in 1906 to beco a representative for Oppenheimer & C in Scotland. He retired in 1944 from appointment with the Rosswell Co-ope tive Society, Ltd.

DEWING.—At his home in Grimsby, July 19, Mr. Charles Dewing, the last s vivor of the founder members of t Grimsby Pharmacists' Association. Un his retirement two years ago, Mr. Dewi carried on a business as a chemist, whi he founded in the Old Market Pla Grimsby, in 1892. He qualified in 188 and joined the association upon its form tion in 1894.

THOMAS.—At Coombe Cot, Callingt Cornwall, on July 2, Mr. William Andr Thomas, M.P.S., Liskeard Road, Callin ton, aged sexenty-six. Mr. Thomas's a prenticeship was served with Mr. Right Lord Street, Southport and he qualified Edinburgh in 1891. After experience w his brother-in-law, Mr. Hopley (Cheero Hopley, Chester), and with E. Griffi Hughes, Ltd., Manchester, becoming wo manager for the company at Blackfri Road he acquired, in 1916, a busin at Crewkerne, Somerset. Mr. Thoma health became undermined, and in 1924 disposed of the pharmacy and set up in small way in the New Forest, finally tiring to Callington.

WILLS

MR. JOHN EDWARD HODGSON, M.P. 14 High Row, Darlington, left £16,859, w net personalty £9,998.

MR. HENRY ALLMOND HOBBS, Ph. 3 Royal Buildings, Penarth, Glamorga left £13,128, with net personalty £12,705.

MR. ALBERT BLACKLEDGE, M.P.S., Park Road, Chorley, Lancs, left £2,5 with net personalty £1,918.

COMPANY NEWS

British Surgical Industries, Ltd. (P.C.).—Capital £500. Chemists, druggists, etc. Harold H. Huffer and Arthur Rowley, directors. R.O.: 515 London Road, Thornton Heath.

Blooms Beauty Preparations, Ltd. (P.C.).—Capital £100. Pharmaceutical, manufacturing and general chemists and druggists, etc. Directors to be appointed. R.O.: 146 Bishopsgate, London, E.C.2.

Ambassador Perfumery Co., Ltd. (P.C.).—Capital £1,000. To carry on business as indicated by the title. A. W., and R. J. Pendrill, and R. Turner, directors. R.O.: 39 Battersea Rise, London, S.W.11.

Weed Control, Ltd. (P.C.).—Capital £2,000. Manufacturers of and dealers in insecticides, disinfectants, etc. James C., Ethel M., and Mary T. Gifford, directors. R.O.: 53 Forest Road East, Nottingham.

Almond Beauty Products, Ltd. (P.C.).—Capital £100. To carry on business as indicated by the title. Fred E. Lever and Lancelot L. Schofield, directors. R.O.: 151 Westbourne Terrace, London, W.2.

Inimex Agencies, Ltd. (P.C.).—Capital £100. Importers, exporters, merchants, etc. George H. Davies and Jean A. Marynissen, directors. R.O.: 81 Barrogate Road, Chiswick, London, W.4.

Frederick H. Wallom (Chemists), Ltd. (P.C.).—Capital £2,000. Chemists, etc. Frederick H., and Gwendoline A. Wallom, directors. R.O.: 5 Kelvin Parade, Orpington, Kent.

Gatford, Ltd. (P.C.).—Capital £100. Manufacturers of and dealers in chemicals, dyestuffs, soaps, etc. Gordon Thompson and Bernard R. Fisher, directors. R.O.: 5 Eynsford Rise, Eynsford, Kent.

Elizabeth Saxton, Ltd. (P.C.).— Capital £1,000. Manufacturers of and dealers in cosmetics, chemicals, etc. Elizabeth S. Harrison and Robert A. Cliff, directors. R.O.; 114 Cambridge Road, Churchtown, Southport.

G. M. File, Ltd. (P.C.)—Capital £100. Manufacturers of and dealers in chemicals, drugs, etc. George M., and Agnes F. File and Rose L. Heard, directors. R.O.: 1 Station Parade, Cherry Tree Road, Buckhurst Hill.

Dean & Smedley, Ltd. (P.C.).—Capital £4,500. To acquire the business of a pharmacist now carried on by John A. Dean, at 67 Horniglow Road, Burton-on-Trent, as "J. A. Dean," John A., and Joan L. Dean, and Harry Gilman, directors. R.O.: As above.

Percenta, Ltd.—The former nominal capital of £1,000 in £1 shares was increased on June 28 to £10,000, of which £5,000 was allotted for cash. The company was first registered as a private company in March 1938.

James Burrough, Ltd.—Mr. Alan Burrough has been appointed a director.

A. Boake, Roberts & Co., Ltd.—A final ordinary dividend of 2 per cent., tax free, is proposed, making, with six interim payments of 1½ per cent., 11 per cent., tax free, for the year to March 31.

Beecham Group, Ltd.—Trading profit of companies and subsidiary companies for the year ended March 31 amounted to £2,784,229, compared with £2,491,581 in the previous year. After charges, net profit of the Group amounted to £437,528, against £367,902. Results of the various companies of the Group are as follows:—

Beecham-Maclean Holdings, Ltd.—Trading profit to March 31 was £802,057; net profit, £361,562; ordinary dividend, 46 per cent.

Macleans, Ltd.—Trading profit to March 31 was £545,327; net profit, £268,842; ordinary dividend, 45 per cent.; forward, £14,497.

Eno Proprietaries, Ltd.—Trading profit to March 31 was £366,527; net profit, £151,403; ordinary dividend, £122,625; forward, £40,402.

A. F. Sherley & Co., Ltd.—Net profit to March 31 was £5,850; interim dividend on deferred shares, 15 per cent.; forward, £3,248.

Yeast-Vite, Ltd.—Trading profit to March 31 was £269,694; net profit, £163,532; ordinary dividend, 15s. 10d. per share; forward, £28,396.

Prichard & Constance (Manufacturing), Ltd.—Net profit to March 31 was £27,376; interims on deferred dividend, 85 per cent.; forward, £6,227.

Veno Drug Co., Ltd.—Trading profit to March 31 was £743,906; net profit, £244,696; dividend on deferred ordinary shares (2s. per share), £214,500; forward, £19,475.

PERSONALITIES

Sir John Anderson was chief guest at the annual luncheon of the Society of Chemical Industry held in London on July 12.

Alderman C. J. Wain, M.P.S., "father" of the Newcastle-under-Lyme, Staffs, town council, celebrated his eightieth birthday on July 15. He has been a member of the council for over fifty years.

Mr. Alan Burrough, who has been appointed a director of James Burrough, Ltd. (see p. 103), lost a foot in Libya, and was wounded on two other occasions. In spite of these handicaps he was rowing recently for the Thames Rowing Club at Henley Royal Regatta.

Sir Alexander Fleming, discoverer of penicillin, has been awarded the Harben gold medal. The presentation was made by Mr. Walter Elliot at the Royal Institute of Public Health and Hygiene. Recently, at a ceremony in Dublin, Sir Alexander received an honorary degree.

Mr. Robert Stephenson, M.P.S., King Street, Southwell, has been appointed a Justice of the Peace for the Southwell Division of Nottinghamshire. Mr. Stephenson is organiser and officer in charge of the Southwell district ambulance service, commandant Notts 49th Detachment of the British Red Cross Society, district first aid commandant of civil defence, and a Methodist local preacher.

Mr. W. C. S. Thomas, Clapham, this year's president of the South-west London Chemists' Association, served his apprenticeship in Cardiff and qualified in 1920 from the Welsh College of Pharmacy. He joined Mr. P. J. Pinson, M.P.S., 31 High Street, Clapham North, in 1925. At one time secretary of the Cardiff Pharmacists' Association he became social secretary of the S.W. London Association. In 1945 he was elected vice-president. During the war he was a local Post Warden.

Mr. J. Austin Thomas, Church Street, Ladybrand, Orange Free State, who has been on a business visit to this country for the past three months, is returning home by air via Johannesburg on July 30. During a call at the offices of The Chemist and Druggist this week Mr. Austin Thomas said he had enjoyed his visit but had lost a little weight, probably due to our rations. Despite this he had been advised that his luggage on the homeward trip must not exceed 66 lb., whereas he had been allowed up to 77 lb. on his journey this country from the Dominion.

Miss Evelyn M. Qualtrough, M.P.S this year's chairman of the Yorkshi Branch, Guild of Public Pharmacis served her apprenticeship with Mr. J. Aspell, Douglas, Isle of Man, "under whc eagle eye," she writes, "my colleague a I made all the galenicals it was possible make. We even had a special buildi known as the 'tincture-house' which sto in the garden." After qualifying she act as locum at various shops and hospita managed a pharmacy for four years a then was appointed pharmacist to Sout port General Infirmary, where she w succeeded by her sister upon taking up h present appointment at York Coun Hospital.

BUSINESS CHANGES

The offices of the Pharmaceutical Socie of Ireland will be closed during August.

Mr. Alphonsus Corless, M.P.S.I., h purchased McAnally's Pharmacy, 44 Dubl Street, Carlow.

Boots, Ltd., have acquired the busin of J. Marlar & Son, Ltd., chemists, 49- High Street, Halstead, Essex.

Imperial Chemical Industries, Lt have removed their sales office to Glouc ter House, 149 Park Lane, London, W (Telephone: Grosvenor 4020).

Boots Pure Drug Co., Ltd., have pu chased over 100 acres of land at Aidr Lanarkshire, for the purpose of erecting factory. Building is to commence as soon necessary licenses are granted.

Mr. John Noble Cooper has be appointed assistant managing director R. J. Reuter Co., Ltd., Slough. He is t only son of Mr. H. E. Cooper, M.P (managing director of the company).

Mr. Denis Harkins, M.B., Ch.B., h been appointed medical adviser to the Ch H. Phillips Chemical Co., Ltd., 1 Warp Way, Acton, London, W.3. Dr. Harki before studying medicine, was a pharmaci He passed the Chemist and Druggist Qua fying examination in 1931.

J. & J. Colman, Ltd., have remov their London office to 40-41 Bedfo Square, London, W.C.1 (Telephon Museum 7431), already occupied by Reck & Son. All remittances for the J. & Colman branch of Reckitt & Colman, Lt should be addressed to Carrow Wor Norwich.

TRADE NOTES

Discontinued.—Allen & Hanburys, Ltd., Bethnal Green, London, E.2, announce that they are no longer taking part in the distribution of rose-hip syrup.

Fine Packaging.—S. Maw, Son & Sons, Ltd., Aldersgate House, New Barnet, Herts, direct attention to the distinctive packages of modern design in which the company's Meritor products are now being issued.

Additions to Sulphonamide Range.—May & Baker, Ltd., Dagenham, Essex, have added sulphaguanidine to their range of sulphonamides. Supplies are available in containers of 100 and 500 0.5-gm. tablets.

Supplies Now Available.—Silf Co., Ltd., 39 Shaftesbury Avenue, London, W.1, state that supplies of Silf tablets are now in wholesalers' hands. A showcard in three colours will be sent by return, on request direct to the manufacturers.

Show Material Again Soon.—Alfred Franks & Bartlett Co., Ltd., Audrey House, Ely Place, London, E.C.1, express regret that they are unable at present to satisfy all requests for the sun-spectacle showcard that proved so popular before the war, but they hope before long to be again in a position to satisfy all demands.

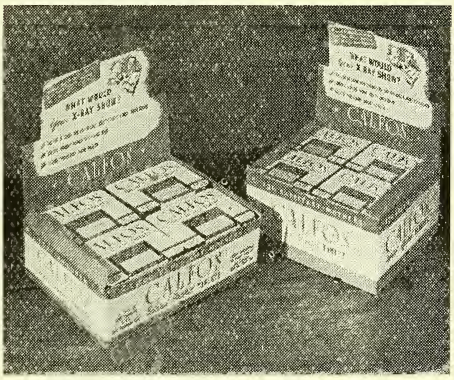
Increased Discount.—An important price concession to retailers is contained in an announcement by Eli Lilly & Co., Ltd., Basingstoke, Hants, that from August 1 all preparations of the company will carry a discount to retailers of 33⅓ per cent. from the prices given in the company's retail price list.

Advertising Campaign.—Details are given in this issue of Press advertising to be carried out by Dae Health Laboratories, Ltd., 17 Berners Street, London, W.1, for the company's preparation Valpeda, which is described as "what the public need to take the ache out of tired, aching, and swollen feet". The preparation is put in collapsible tubes.

Aid in Securing Supplies.—The sole manufacturers and proprietors of Dr. Page-Barker's scurf lotion (Ilex Supply Co., Ltd.), 252B Grays Inn Road, London, W.C.1, invite chemists who experience any difficulty in obtaining supplies of this preparation to write to them giving the name of their usual wholesale distributor, whereupon the company will give every assistance in ensuring that supplies are made available.

Penicillin Preparations. — Imperial Chemical (Pharmaceuticals), Ltd., Manchester, point out that trade supplies of penicillin preparations may be obtained through the company under arrangements made by the Ministry of Supply. The freeze-dried sodium salt is available in 20-c.c. rubber-capped vials containing 0.1, 0.2, 0.5 and 1.0 mega unit. Inquiries are also invited for penicillin calcium salt in bulk containers of 1, 10, 50 and 200 mega units.

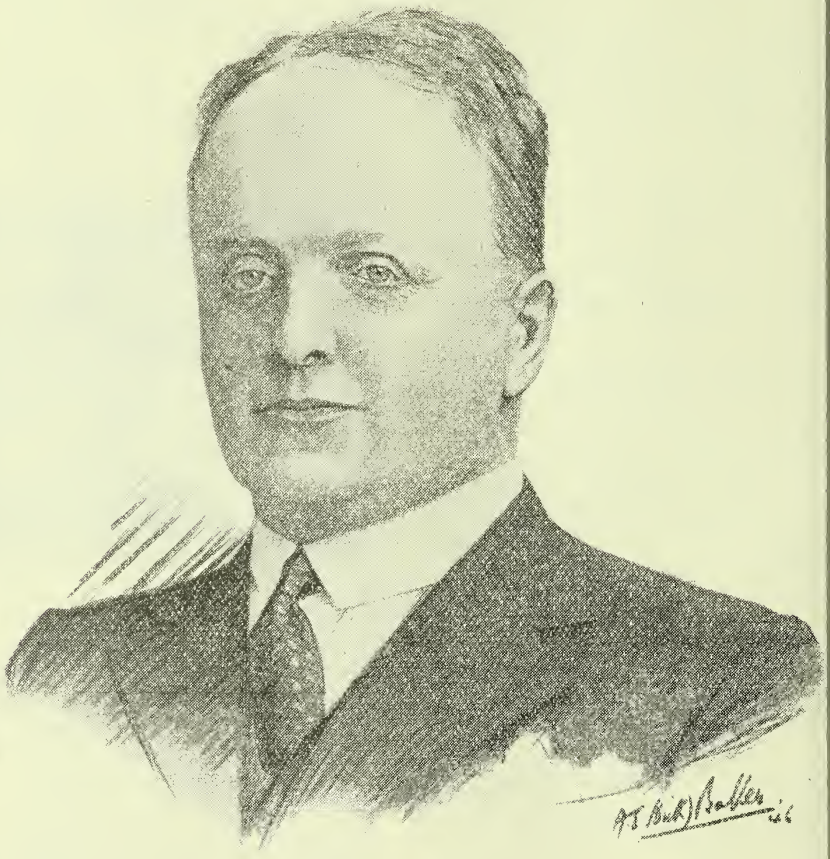
Display Packs.—Calfos, Ltd., Imperial House, Kingsway, London, W.C.2, are now carrying out plans for an intensive sales campaign for Calfos natural mineral tablets.



The whole country, apart from two southern territories, is being covered by a team of eight sales representatives who are offering this preparation to pharmacists in a new display pack. National advertising is to follow at a later stage. Two display outers are available, the first containing twelve large tins (120 tablets) and the second twenty-four small tins (50 tablets).

Holiday Closings.—The offices and warehouses of Allen & Hanburys, Ltd., Bethnal Green, London, E.2, will be closed on Saturday, August 3. Urgent orders should be sent to the company's branch at 7 Vere Street, London, W.1.—The works and warehouse at Thomas Morson & Son, Ltd., chemical manufacturers, will be closed for the annual holiday from Friday evening, July 26, until Tuesday morning, August 6; during that period only urgent orders will be dealt with, and suppliers are asked to note that no deliveries will be accepted during the period July 27 to August 5.

CHIEF OFFICIALS OF DRUG AND PHARMACEUTICAL ORGANISATIONS



Dr. JOSEPH TAIT,
F.R.S.E., M.R.C.S.(Eng.), D.P.H., Ph.C.
Resident Secretary in Scotland, Pharmaceutical Society of Great Britain

No. 23. Specially drawn for the Chemist and Druggist

LEGAL REPORTS

Alleged Non-retention of Prescriptions.—At the Newcastle, Staffs, borough magistrate's court recently, Oxens, Ltd., 4 Bridge Street, and Joseph Kenneth Sambrook, 471 High Street, were charged with failing to retain certain prescriptions for two years so as to be readily available for inspection. Oxens, Ltd., pleaded guilty and said the offence was due to an oversight. Sambrook pleaded not guilty, and produced in court the three prescriptions relating to the summonses. Oxens Ltd. were fined £3, with £2 2s. costs; the summonses against Sambrook were withdrawn.

Strychnine Fine.—At Preston borough magistrate's court on July 10, Henry Myerscough, M.P.S., was fined £5, with £5 1s. 6d. costs, for unlawfully supplying dr. ½ of strychnine otherwise than as an ingredient in a medicine. Myerscough produced a certificate that had not been countersigned by the police. Evidence was called to show that defendant had twice refused to supply strychnine to the customer who, on being sent back to the police to get the certificate signed, returned to say that, so long as the pharmacist knew the purchaser and the purpose for which the poison was being used, it would be all right.

Pharmacy Act Fine.—At Bow Street, London, police court, recently, Edgar Albert Hayman, trading as Hayman & Freeman, London, W.1, was summoned for selling by retail a poison (ethylmorphine in compound syrup of cocillana), the sale not being effected under the supervision of a registered pharmacist. He pleaded guilty. Prosecuting solicitor said the business was a good-class one where, possibly, poisons were sold and prescriptions dispensed in the absence of a qualified person, although there was no evidence of that. A letter from the manager said he was called away to attend to the affairs of a deceased relative and that he made several attempts to get a qualified assistant. For the defence it was stated that Mr. Hayman had been in this business for twenty years and was well aware of the desirability of scrupulously observing all the rules and Acts. The qualified manager, who had been in charge of the shop for fifteen years, was away for four days. Before going he had made every effort, including an advertisement, to get a qualified assistant, but without success. He had made arrangements with a neighbouring chemist, who went in daily to attend to the dispensing. A £10 fine was imposed.

INSURANCE ACT DISPENSING

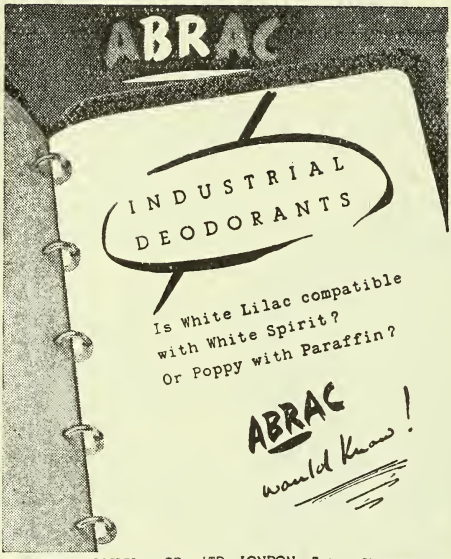
Blackburn.—The Insurance Committee, at its July meeting, accepted Mr. H. Fletcher, Penwortham, as member of the dispensing panel on taking over the business of Mr. H. Martin, 10 Whalley New Road, Brookhouse, Blackburn.

Cornwall.—The County Pharmaceutical Committee's report for 1945, issued recently, shows that 261,525 National Health Insurance prescriptions were issued during the year at an average cost per prescription of 14.340d. Mr. V. H. Wood, M.P.S., joined the Committee recently.

Staffordshire.—The annual report of the Insurance Committee, recently published, shows that on December 3, 1945, there were, on the Committee's list, 256 chemists and 410 contractors' shops. Administration costs of the Committee were £9,330, against £7,971 in 1944.

Glasgow.—The annual report of the Burgh Insurance Committee approved recently states that 333 pharmacists, occupying 460 shops, are under contract with the Committee, and that the 841,175 prescriptions dispensed during the year cost £81,243. The number of practitioners on the medica list was 453.

Manchester.—The report for the year 1945 presented to the Insurance Committee stated that 1,825,266 prescriptions had been dispensed by chemists during the year, and sixty-three by doctors, a total of 1,825,329. The tariff value was £100,286 for chemists' accounts, and £45 for doctors'. The number of prescriptions dispensed was 20,487 less than in 1944, the decrease being reflected in the average number of prescriptions dispensed per insured person: 5.426 in 1945, 5.483 in 1944. The average cost per prescription for ingredients was 7.187 pence in 1945. Total value, 13.186 in 1945, and 11.922 pence in 1944, an increase of 1.264 pence. The average drug cost was 6s. compared with 5s. 5d. in 1944. Numerous expensive scheduled appliances and special drugs had been supplied. One patient received a prescription for twenty-four injections at a cost of £7 8s. 9d. Another patient, during a period of five-and-a-half weeks, received prescriptions for dressings and drugs to a total cost of £9 19s. 2d. The number of chemists on the Committee's list was 265, with 371 places of business. Of these pharmacies 235 were situated within the City boundaries and 136 were in adjacent areas.



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VOL. CXLVI JULY 27, 1946 NO. 3468

Conference Impressions

THE 1946 meeting of the British Pharmaceutical Conference must be accounted highly successful in a distinguished series. Austerity was still the order of the day, though there was evident a desire to replace the war paint with brighter pigments, and thoughts were on Torquay and a freer future rather than on the attenuated London Conferences of which the one just ended is, it may be confidently assumed, the last.

Hint from Society's President

Whether it will be possible to return in 1947, or at all, to Conferences on a pre-war scale is by no means certain, and a hint to this effect was given by the president of the Pharmaceutical Society in his opening remarks on July 16. Pharmacy, in common with other classes of the community and the country as a whole, is less well off than formerly and is compelled to husband its resources. All may be sure, however, that the confidence, optimism and vigour of the 1946 meeting will be the guarantee that there will be no unnecessary or artificial restrictions on development.

Perhaps the outstanding success of the year was the Symposium Session. As will appear from the Conference Secretary's report (see p. 119) there was every intention of making this an annual feature. The response accorded by both speakers and "floor" must have gratified the most confident hopes of the organisers. It is true that in penicillin a ready-made subject was forthcoming that is hardly likely to be surpassed in topical interest at any future meeting, and that there are almost bound to be occasional "lean" years when no subject of compelling interest presents itself. Nevertheless, the way in which the Session was organised, the meticulous care so obviously taken by the introducers, particularly Professor Berry, and the questions coming from all pharmaceutical interests represented at the Conference, prove that the will and the means exist to make every such Session a success. The showing of a number of lantern slides was a rather tentative introduction of a feature to which greater attention could be given in the future, and the possible projection of cine films, even sound films, should be explored. Particularly if made in the first place especially for showing at the Conference, they will add greatly to its prestige and popularity.

Lively Discussions

Lest it should be thought by those unable to be present that the innovation of a Symposium Session offers any threat to the established Science Sessions, we hasten to record that the discussion on the papers read was well up to standard in both quantity and quality. Indeed, there was some hard hitting on controversial matters, and short shrift for any loose or unsubstantiated statements. This is all to the good in stifling at birth any possibility of pseudo-scientific strains developing at what is essentially a scientific gathering, though it is often hard on authors who have shown genuine originality and intensive effort, for nobody can think of every possible criticism in advance. It is also somewhat galling, perhaps, for an author who, at a previous Conference, has entered a new field of research, to see his explorations taken up, and new conclusions, not always supporting his own, arrived at. In the long run, however, credit goes to the pioneer, and this must be his consolation.

On the social side the arrangements met with general approval, and the change of venue was applauded. In one respect the organisers were unnecessarily timid. The introduction of a few speeches at the Conference dinner would in our view have been well received, and would have tided over a period of expectant quiet that

proved to be mere hiatus. Perhaps, at the seaside next year, the wit of after-dinner speeches will be allowed to scintillate in contrast to and relief from the serious mood engendered by the sequence of scientific gatherings.

June Exports Decline

THE first decline in the value of British exports since November of last year, when the dock strike interfered with transport arrangements, occurred during June when the total value of overseas trade fell by £20.2 millions, compared with the previous month. The drop in export figures, however, was not unexpected, in view of the fact that June contained four less working days than May, including the V-day and Whitsun holidays, which clearly must have extended longer than the actual holiday period, with consequent dislocation to production and transport. Present indications are that the export figure for July may well exceed the good return for May.

The value of exports of the "chemicals" group shows a decline during June of £1,717,339, compared with May, but the figure of £4,539,576 for June is still considerably in excess of that for the corresponding month of last year. Export figures of drug trade merchandise for May and June of this year, together with values for June of last year, are given below:—

Article	June, 1946	May, 1946	June, 1945
	£	£	£
Druggists' wares	68,412	108,067	57,708
Drugs, medicines, and medicinal preparations	707,803	1,147,976	641,891
Essential oils	12,825	22,241	7,298
Flavouring essences, including colours ...	50,679	80,806	37,679
Gums, bleached or processed	31,822	32,275	19,971
Malt extracts, etc. ...	7,262	7,646	1,185
Perfumery and toilet preparations	228,919	399,442	105,642
Toilet soap	43,754	118,953	30,769

Total imports for June amounted to £102.5 millions. The value of retained food imports (£52 millions) was on an average daily basis 10 per cent. higher than the high May figure. Among raw material imports there was a substantial fall in imports of oilseeds, oils, etc., mainly due to the cessation of groundnut imports from India. Figures for the visible adverse balance of trade are:—

	First quarter, 1946	Second quarter, 1946
Retained imports ...	£266 million	£308 million
United Kingdom exports	£184 million	£219 million
Visible adverse balance	£82 million	£89 million

Although the relative size of the adverse balance compared with the total of retained imports has receded from 31 per cent to 29 per cent., the actual balance against us has increased by £7 millions, in spite of the considerable rise in exports. It can therefore be seen how essential it is to increase exports still furthur in order to balance our trade in the days ahead when we can get back to our pre-war rate of import.

Diphtheria Immunisation Drive

THE Ministry of Health announces that the number of children immunised against diphtheria last year under the local authorities' scheme was 613,329, an increase of 52,015 on the total for 1944. The total number immunised since the national campaign was launched five years ago is 5,979,284. In 1945 there was 25,223 cases and 720 deaths from diphtheria. These are the lowest figures ever recorded. In every year since the campaign got under way, a new low record has been established. Deaths last year were only a quarter of the pre-war average, and the total number of cases less than half. In 1935, the figures were 65,084 cases and 3,408 deaths, and in 1940, 46,281 cases and 2,480 deaths.

The aim of the summer campaign which is being undertaken by the Ministry of Health and the local health authorities, with the help of doctors, chemists, health visitors and welfare workers, is to secure the immunisation of at least 550,000 babies before the winter epidemic season starts. It is believed that if the great majority of babies born each year were protected just before their first birthday, diphtheria would be eliminiated in this country as an epidemic disease. Last year 474,809 children under five years of age were immunised, compared with 386,237 in 1944; but in England and Wales as a whole, four out of ten children are still unprotected.

BRITISH PHARMACEUTICAL CONFERENCE 1946

SYMPOSIUM SESSION

At this year's meeting of the Conference the experiment was tried of devoting a whole session to a single subject: Penicillin. The wealth of support received, and the high level of the discussion, may ensure that the Session becomes an annual feature.

THE Conference room was well filled to launch the first Symposium Session of the British Pharmaceutical Conference on July 17. The theme was penicillin, and the programme was worked out in well-defined stages. By appropriate arrangement, the Session followed immediately upon the reading of two papers on penicillin at the Science Session. Two principal speakers (Mr. Coulthard and Professor Berry) introduced the subject, followed by "hand-picked" contributors to the discussion, followed in turn by open comment or question from the floor. When lunch-time brought the session to a close, there was every indication that the discussion could have continued indefinitely.

The aspect of the subject dealt with by MR. C. E. COULTHARD, who illustrated his remarks with lantern slides, was:—

Penicillin Assay

Mr. Coulthard pointed out that the basic essentials of antibacterial action had long been known. The antibacterial effect of a substance might take various forms, *e.g.*, the substance might be lethal to cells at any or all stages of life, or restrain growth of the organism by affecting the ease of its metabolism. A variety of end-points was provided, including the absence or retardation of growth; oxygen uptake; or production by the organism of a substance detectable chemically. Many of these methods had been tried with penicillin, but probably the Heatley cylinder or ring test was now most widely used.

This method had the advantages of giving a high degree of accuracy; of being simple for large scale tests; and of not requiring the sample to be sterile. Where a penicillin solution with an antiseptic had to be tested, the antiseptic was "diluted out" beyond its effective concentration; or, if a sulphonamide compound was present, this was inactivated with *p*-amino benzoic acid. A useful check was obtained by conducting tests in the presence and absence of penicillinase. Examples had occurred where the joint action of antiseptic and penicillin differed from what had been expected from the properties of the separate compounds. The difference might have been caused by the development of strains of resistant bacteria.

Oily solutions of penicillin had been assayed satisfactorily by dissolving the preparation in chloroform, and extracting with a buffer such as a weak bicarbonate solution. PROFESSOR H. BERRY next presented a paper on:—

The Pharmacopœial Preparations of Penicillin

He summarised physical and chemical factors affecting its formulation as follows:

(1) Water (or moisture) causes a hydrolytic destruction of penicillin, which action is at a minimum at *p*H 6.0 to 7.0 but increases rapidly on either side of that point. Hydrolysis increases with increase in the temperature.

(2) Penicillin, when perfectly dry, is stable. The sodium salt is hygroscopic, and presents a hazard in handling, particularly in preparations with anhydrous bases, and in the resealing of opened containers. The calcium salt is less hygroscopic and presents a smaller hazard of exposure. Therapeutically, the sodium and calcium salts are interchangeable.

(3) As a bactericide, penicillin is selective, and aqueous solutions or preparations of it may be non-sterile. The non-sterility may cause infection in wounds or, systemically, on parenteral injection, particularly intrathecally, or may result, if the organisms produce penicillinase, in inactivation of the penicillin. To prevent development of penicillinase it may be necessary to incorporate a compatible but less selective bacteriostat.

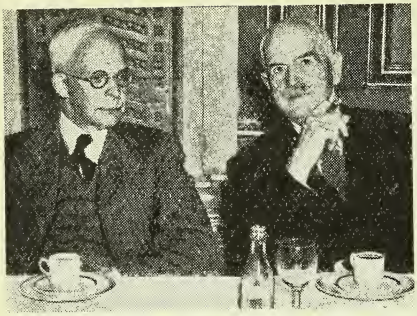
(4) Inactivation by penicillinase is more rapid than by hydrolysis. Penicillinase cannot develop in an anhydrous medium.

(5) Penicillin in aqueous solution is rapidly inactivated by traces of heavy metallic ions such as mercury, or copper, or zinc.

(6) The rancidity of oils may be a destructive factor.

(7) Penicillin, given parenterally, is rapidly excreted in the urine and a reservoir action may be desirable in order to main-

GUESTS AT THE



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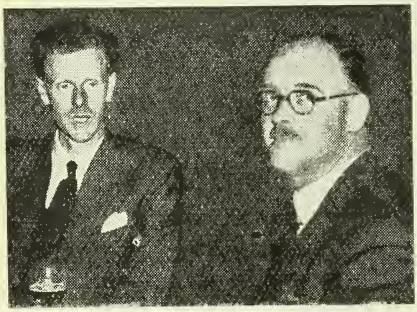

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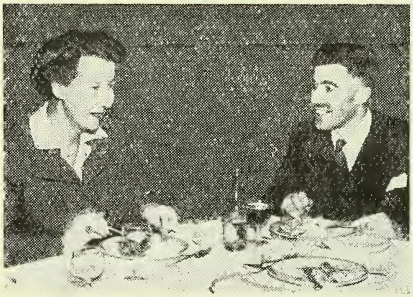

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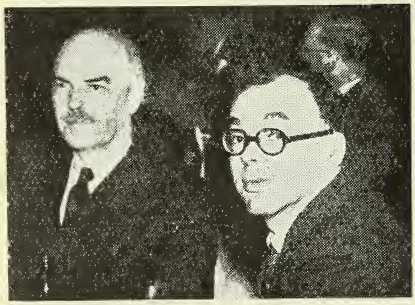

Messrs. H. Surfleet and R. Maxwell Savage

The deputy secretary of the Pharmaceutical So
(Mr. F. W. Adams) with Mr. G. Dalrymple
Professor M. L. Schroff

ERENCE LUNCHEON

The Chairman of the Conference (Mr. B. A. Bull, Ph.C.) with Mrs. Thomas Marns

Left: The President of the Pharmaceutical Society (Mr. G. R. Knox Mawer) with Mrs. Bull

Right: Mrs. A. R. Melhuish with Major E. Saville Peck

Mr. H. Finnemore

Mr. T. C. Denston

Dr. K. Bullock

Mr. F. G. Wells

joint secretaries with their wives: Mr. H. Treves n, Mrs. Boyes, Mrs. Treves Brown, Dr. G. R. Boyes

tain a sufficiently high bactericidal concentration in the blood.

The British Pharmacopœia, by a "Gazette" notice, made certain preparations of penicillin official. In commenting on the preparations, Professor Berry said he was giving his own opinions. Today, potencies of 1000 to 1500 units per mgm. were available and the sodium salt was obtainable as a pure 100 per cent. white product with a potency of 1666 units per mgm.; the calcium salt had not yet attained that degree of purity. The Therapeutic Substances Act and British Pharmacopœia set a lower limit of 300 units per mgm. The B.P., in a first "Gazette" notice, selected for parenteral injection penicillin having a potency of not less than 900 units per mgm., as it was well known that penicillin of low potency might cause, on injection, reactions such as pyrexia and urticaria due to impurities. The limitation was suspended for the aqueous injection by a second "Gazette" notice, but was maintained for the oily injection.

The injection of penicillin, B.P., was a solution of the sodium or calcium salt in sterile water or physiological saline, and was prepared aseptically. In multiple doses, it was directed to contain 0.1 per cent. chlorocresol; its official life at 4° C. of seven days was probably a conservative estimate. In the absence of any prescribed strength, 20,000 units per mil was to be dispensed, which was probably now a low dose.

The pharmacopœial oily injection was an attempt to produce an injectable preparation of penicillin having a reservoir action, so that the interval between doses might be prolonged, or so that, ideally, only a single dose would be sufficient. It was doubtful if that perfection had been reached, and some form of penicillin with a solubility akin to alum-precipitated toxoids was awaited. The preparation contained 125,000 units per mil, and the penicillin must have a potency of not less than 900 units per mgm. Lower grade penicillin was physically unsuitable for the preparation, as, apart from other reasons, it would produce a preparation too viscous for use. The preparation was already not easy to manipulate, even in a warmed syringe. Arachis oil and white beeswax had been chosen as basis instead of ethyl oleate and white beeswax, although the oleate was easier to manipulate in the syringe; presumably arachis oil provided a better reservoir action. The calcium salt was chosen because it was less hygroscopic than the sodium, and had a smaller hazard of exposure to the atmosphere during preparation.

Penicillin Creams

Penicillin creams designed as oil-in-water emulsions, with Lanette wax SX as the emulgent and paraffins or a fixed oil incorporated to give correct consistence and prevent hardening, had been widely used. Sterility for these creams was necessary to prevent infecting the wound with penicillin-resistant organisms such as *Ps. pyocyanea* and to ensure that the cream did not contain penicillinase-producing organisms.

Sterility of the cream implied maintenance of sterility during use, which was almost impossible if it were to be applied by the patient. The Pharmacopœia had therefore introduced two creams—sterilised penicillin cream and penicillin cream [unsterilised], the sterilised cream containing no chlorocresol. Sterilised penicillin cream was intended for treatment of large superficial wounds and burns and must be sterile, and its lack of protection meant that it must be packed in containers holding sufficient for one application, and applied aseptically by trained persons.

Penicillin cream, which contained chlorocresol, was designed to be applied by the patient. While preventing development of penicillinase, however, the chlorocresol would not prevent slow hydrolysis. As the cream was primarily designed for treatment of skin infections, the necessity for aseptic precautions did not arise. The water, however, must be boiled to destroy any penicillinase. The life of both sterile and non-sterile creams was that of an aqueous solution. Both had a potency of 500 units per gm.

Ointments of Penicillin

As ointment of penicillin was made with an anhydrous base—ointment of wool alcohols (dried as an additional precaution by heating at 110° C. for one hour)—it should be stable at room temperature for six to nine months. Because of its stability, the preparation would probably be preferred in cases where the greasy base was not contra-indicated. The necessity for sterilisation or addition of an antiseptic did not arise.

The oculentum followed the usual type in the Pharmacopœia except that water was omitted. The rapid rate of solution of penicillin in water, and its insolubility in the base, should be sufficient to ensure that it passed readily into the lachrymal secretion. Being anhydrous the preparation should be stable.

Lozenges of penicillin contained 500 units each of the calcium salt. They were processed like compressed tablets with the precaution that the penicillin, as a dry powder, was shaken into previously prepared dry granules of sucrose or lactose, or a mixture of these, to prevent possible hydrolytic destruction during manufacture.

Unofficial Preparations

Of unofficial preparations Professor Berry mentioned the use of sterile lactose as a diluent for penicillin in preparing a dusting powder. Sulphathiazole had been used as a diluent, but the bacteriostatic action of the sulphonamide was usually unnecessary. Solution tablets containing about 10,000 units formed a convenient means of obtaining small amounts of penicillin for solution.

By previous arrangement, Dr. Norman Evers, London, spoke next, discussing possible errors in the disc-plate method of assay. In his own laboratory, a dose-response curve was prepared daily; this was not wholly satisfactory, and the practice had arisen of including in every assay a test on one unit of penicillin, correcting the day's results according to a mean of twenty to thirty one-unit tests.

Penicillin and the Hospital Pharmacist

Dr. H. Davis, contributing under the above title to the discussion, advised hospital pharmacists to resist demands for slight variations in strengths of penicillin cream. For parenteral use, the patient was entitled to penicillin of the highest purity, and Dr. Davis urged that every effort should be maintained to manufacture this. Difficulties had been experienced in the use of penicillin and sulphathiazole dusting powder, caused by caking and the formation of hard lumps, which acted like foreign bodies. To replace this a preparation of penicillin and lactose dusting powder containing 2,000 units of penicillin per gm. had been used and found satisfactory. In the preparation the lactose was dried at 100° C. and then sterilised by dry heat at 150° C.; a slight decolorisation had sometimes been found, but, for the purposes of the dusting powder, this could be neglected. The powder was dusted on to spontaneous openings of boils and carbuncles and was also packed in surgical incisions. Lactose, though soluble, did not dissolve quickly; lumps and concretions were completely avoided. There was little evidence of synergic action in the compound sulphathiazole-penicillin powder.

Eye drops, 2,500 units per c.c. in 1.4 per cent. saline; nebulæ, 2,500 units per c.c. in normal saline; auristillæ, 2,500 units in normal saline; and a lotion, 500 units per c.c. in normal saline were among other preparations of penicillin used at the speaker's hospital. The pharmacopœial statement that the proportion of paraffin in penicillin cream could be varied to give a suitable consistence allowed for the preparation of liquid creams for the treatment of, for example, neo-natal pemphigus; on the other hand, creams for application to the face should be viscous. Water-in-oil creams were preferred by many. For oral administration, penicillin had been adsorbed on a suspension of aluminium hydroxide. Dr. Davis stated that there was a case for manufacturers to produce penicillin cream in the form of a sterilised anhydrous base, plus penicillin, which would require the dispensing pharmacist merely to add an equal weight of recently boiled and cooled water to produce penicillin cream of the B.P. formula. Boiling of the distilled water prior to use would be necessary, he added, in order to destroy any penicillinase.

He suggested that the wording of the British Pharmacopœial monograph on penicillin lozenge should be amended to state that, if no strength were prescribed, a lozenge of 500 units should be supplied.

A Retailer's Experience

In his retail pharmacy licensed under the Therapeutic Substances Act for the dispensing of penicillin, Mr. B. J. Thomas said that aqueous and only injections were being dispensed, and supplied in rubber-capped bottles and ampoules. Dosage was tending to increase, and oily injections containing as much as 200,000 and 300,000 units per mil had been made, but complaints had been received that these caused blocking of the needle. Difficulty had been experienced in obtaining supplies of containers for penicillin work. An unsterilised cream containing 1,000 units per gm. was popular, and an order had been received for a sterilised cream of the same strength for ophthalmic use. A cream prepared in a Eucerin base was preferred by some doctors. Tooth-cream, containing 5 per cent. sulphacetamide and 5,000 units of penicillin per gm.; a penicillin snuff made with dextrose; ophthalmic preparations; and preparations containing bactericides for the ear and nose were among forms in which penicillin had been dispensed in his pharmacy.

The last of the "hand-picked" speakers, Mr. T. D. Whittet, stated that an intramuscular injection of penicillin containing 50,000 units per mil was, in his experience,

the most popular form in which the drug was being administered. The injection was put up in Clinbritic bottles, and contained one million units in 20 mils. For continuous injection the intramuscular route was chosen, using the U-drip method with a burette, but for intrathecal use pure sodium penicillin and the requisite volume of sterile saline were sent to the theatre, and the solution prepared immediately before use. The strength was 5,000 units per mil. Procaine solutions had been observed to react with the less pure types of penicillin to give a slight deposit. The base for the unsterilised cream used in his own hospital was:—

Lanette wax SX...	...	3.5
Liquid paraffin	...	15.0
Chlorocresol ...	...	0.1
Distilled water to	...	100.0

This gave a preparation which was just pourable though not too fluid. An aqueous base was preferred to the hydrophilic, though the clinical effects were the same. The unsterile cream contained 200 units per gm. and the sterile cream 500 units.

For dental purposes a powder of penicillin in sterile sulphacetamide, 500 units per gm., had been prepared. Eye-drops had been made containing 1,000 units of penicillin in 1.4 per cent. sodium chloride solution, with 0.05 per cent. chlorocresol; and a spray-solution containing 1,000 to 10,000 units per mil. For bronchiectasis, 2 mils of the solution had been vaporise every two hours, but patients had foun the vapour unpleasant. The use of pen cillin pastilles had been abandoned i favour of lozenges.

Discussion

Mr. I. Michael suggested that penici linase was produced only when the orga isms were actively growing, and claime that there were advantages in other assa methods than the ring-plate (*e.g.*, the filte paper method).

Mr. A. Mortimer paid tribute to th "monumental" work done by members c the production committee called under th Directorate of Medical Supplies; heads c companies; teams of workers; and "back room boys" who had all pooled informa tion on penicillin for the benefit of mankinc

Mr. A. D. Powell, Nottingham, sug gested that rancidity of the oil, and trace of chromium coming from bleached bee wax might accelerate the loss in potenc of oily preparations of penicillin.

Mr. C. E. Coulthard, replying as on of the openers of the discussion, said tha from the results penicillin assays were pro bably more accurate than those from othe biological assays, but there was a factor i the day-to-day results which was baffling

Professor Berry briefly wound up th discussion, giving an indication to reta pharmacists when sterility in penicilli preparations was not essential.

SCIENCE SESSION

The eighteen Science Papers presented at this year's meeting of the British Pharmaceutical Conference were dealt with at four sessions.

During the morning Science Session on Tuesday an appeal was made for final contributions to the Corfield Memorial fund, which would be closed shortly after the termination of the Conference.

The Chairman also drew attention to the presence of Mr. H. Finnemore, a former secretary of the Conference, whose return to this country from Australia was, he said, welcomed by members.

The first paper was:

Determination of Arsenic in Organic Arsenic Compounds

By C. W. Ballard

[Abstract]

Although the Pharmacopœia does not specify a chemical assay for neoarsphenamine and sulpharsphenamine it is custom ary for manufacturers to determine th arsenic content, and hence establishing satisfactory method is of importance. New bery applied his method satisfactorily to large number of compounds and since apparently has marked advantages, part cularly in not involving the use of fumin nitric acid, it was decided to establish con clusively its suitability for general use in th Pharmacopœia and Codex. Newbery method consists of four stages (1) destric tion of the organic part of the compoun by oxidation in aqueous solution with am monium persulphate, (2) decomposition c excess of persulphate by oxalic acid, (3 reduction of pentavalent to trivalent arseni by boiling in the presence of hydriodic acid (4) neutralisation followed by trition wit iddone. The method, when strictly applied was found to contain positive sources o

error, and the modified method finally decided upon was as follows:

Weigh accurately into a 250-mil. conical flask an amount of sample expected to contain from 0.08 gm. to 0.09 gm. of As. If soluble in water, dissolve in 30 mils. of water; if insoluble in water, dissolve in 5 mils. of N/1 sodium hydroxide and 20 mils. of water and add 5 mils. of N/1 sulphuric acid; if the sample contains chloride, dissolve in 50 mils. of water. Place several glass beads in the flask and a small funnel in the neck, add 8 gm. of ammonium persulphate and boil briskly (using moderate bunsen flame) until colourless and for two minutes longer. (In the case of sodium cacodylate heat for about five minutes after ebullition commences.) Add cautiously 50 mils. of oxalic acid solution and boil vigorously for five minutes (from the time of addition). Add cautiously 40 mils. of dilute sulphuric acid and 10 mils. of potassium iodide solution. Boil vigorously until the volume is reduced to about 40 mils. (by comparison with a similar flask containing 40 mils. of water). Cool, just remove the pale yellow colour by the addition of sodium sulphite solution drop by drop (one to three drops usually) and immediately add about 60 mils. of water. Add one drop of solution of phenolphthalein and sufficient test solution of sodium hydroxide to render just alkaline (about 40 mils.). Add 10 mils. of dilute sulphuric acid, mix, cool, neutralise with sodium bicarbonate, add up to 5 gm. in excess and titrate with N/10 iodine. If starch solution is used add it just before the end-point is reached. To 40 mils. of test solution of sodium hydroxide add 80 mils. of dilute sulphuric acid, one drop of solution of phenolphthalein and dilute sulphuric acid until colourless; add 10 mils. in excess, 10 mils. of potassium iodide solution and cool. Neutralise with sodium bicarbonate and add up to 5 gm. in excess. Titrate with N/10 iodine and deduct the reading from that obtained above. 1 mil. of N/10 iodine = 0.003746 gm. of As.

The results by the Codex method are slightly higher and this may be attributed mainly to tetrathionate decomposition, the error involved being significant compared with the relatively small burette reading.

The author also gives a proposed modification of Robertson's method, on which the B.P. method for determination of arsenic in acetarsol is based.

The results by the modified method are lower than by the Pharmacopœial method and this may be attributed mainly to tetrathionate decomposition and reducing substances in sodium hydroxide, the errors involved being appreciable relative to the small burette reading. General agreement was found between results by the proposed modified Newbery method and the modified Robertson method.

The modified Newbery method is recommended as the more convenient. (From the analytical control division of May and Baker, Ltd.)

Discussion

Dr. Phillips, London, said that he had worked with Newbery, who had found, shortly after delivering his paper, that modifications were necessary in his process; the revisions had never been published. Dr. Phillips queried the use of sodium sulphite instead of sodium thiosulphate, which he had found quite satisfactory. If the estimation were properly carried out, the arsenic in acetarsol could be determined within a narrow degree of accuracy.

Dr. Hartley, London, inquired as to the relative speeds of the modified Newbery and modified Robertson methods, and Dr. Foster, Dartford, asked whether the method was capable of being adapted to the assay of antimony compounds.

Mr. Ballard, in reply, agreed that, under optimum conditions, thiosulphate gave no error, but declared that success depended on the amount of iodine left at that stage; different operators, with different amounts of iodine, obtained varying results. There was little difference in overall time between the two modified methods, and further modifications were necessary if they were to be adapted to antimony assays.

The next paper was:—

The Fruit of *Lobelia Inflata*, Linn.

By John Malcolm Davies

[Abstract]

The presence of a large proportion of fruits in the commercial drug being constant, it was considered that some useful purpose would be served by making a complete examination of the fruit with a view to recording those characters by which it may best be distinguished when whole, in a ground condition, or when occurring as a constituent of a medicament.

The next paper was:—

nearly spherical in shape, 0.5 to 0.7 to 1.1 cm. long and 0.3 to 0.4 to 0.6 cm. wide. A transverse section is angular-oval in shape, indented at two points coincident with the junction of the septum and the pericarpic wall. It is inflated, inferior, bicarpellary, bilocular with biporous dehiscence and axile placentation. There are ten principal veins (ribs) prominent on the outer surface, alternate veins being continued upwards to form the mid-veins of the sepals. The capsule wall (pericarp) is tough and membranous and traversed by a vascular network of branches from the ten ribs which anastomose midway between the ribs and are slightly raised on the outer surface. The upper extremity of the capsule wall is an angular ring of vascular tissue bearing the sepals at alternate angles. Within this ring the dehiscence mechanism is located. The sepals, five in number, are subulate in shape, 4 to 6 mm. long and

about 1 mm. wide at the base. The apex is acuminate the margin entire and slightly revolute: they are often recurved. The sepals are frequently broken in the commercial drug.

The septum which divides the capsule into two loculi is membranous except near the upper third of the placenta where it is thicker. It is attached to the inner surface of the pericarpic wall except at its apex where it joins the fins of the pore flaps.

In the description of the histology of the fruit the capsule wall is stated to be 85*u* to 125*u* in thickness and to consist of seven to nine layers of cells irregularly stratified in tranverse section. It comprises the inner and outer epidermises together with the interepidermal cells of the mesocarp, the vascular system and the idioblasts which consist of characteristic isolated sclereids.

The histology of the outer and inner epidermis, parenchymo of the mesocarp, fibro-vascular bundle of the rib, the septum, placentæ, pore flaps, sepal pedecel and other structures are also described in detail, and macroscopic and microscopic illustrations accompany many of the structures described.

The material for this investigation was drawn from nine samples of the commercial drug and the fresh plant grown from seed (taken from one of these samples) at Radyr, Glamorgan. Owing to the membranous nature of the capsule wall and septum, and the abundance of sclerenchyma elsewhere, prolonged soaking in water failed to yield material suitable for dissection. It was found that the capsule was brought into a good condition for sectioning by maceration in a saturated solution of chloral hydrate for at least fourteen days.

The following characters were found of value in the identification of the capsule in the form of powder:—(*a*) pericarp in surface view showing lignified sclereids; (*b*) sclerenchyma of the pore flap and septum; (*c*) inner epidermis with subjacent stellate cells of the mesocarp; (*d*) pericycle of the pedicel; (*e*) trichomes. From the Pharmacognosy Laboratory, Welsh College of Pharmacy, Technical College, Cardiff.)

Discussion

The Chairman asked if the fruit contained any active constituents and if it could be used to estimate the amount of seed present in the drug.

Dr. T. E. Wallis, London, said that, in the absence of knowledge of the structure of the fruit this might be confused with an adulterant of the drug. Did the endodermis lie outside the pericycle, and how was it recognised?

Mr. H. Finnemore, London, commented that the percentage of fruits given in the drug was high, and asked how the drug was sampled, and if the grown specimens had given an equivalent figure.

Dr. Fairbairn, London, raised a query about the concentration of chloral hydrate used, and asked for details of how the seeds were grown.

Dr. F. J. Dyer, Reading, asked if maceration of lobelia in lactophenol had been tried.

In reply, Mr. Davies said that there was no information on the pharmacological action and constituents of the fruit, and that the characters of the fruit were diagnostic of the whole drug. The grown fruit showed pedicels with externally a regular layer containing starch. The samples had varied from ½ to 6 lb. in amount, and the percentage of capsule varied between 8 and 16 per cent. but the grown specimens produced insufficient capsules for an estimate of the total percentage to be made. Seeds had been grown by sowing in sand, loam, and leaf mould, which was kept wet and at about 70° F. in a horticultural saucer. Germination took place after about five weeks.

CLOSING SESSION

The closing session of the Conference was held on July 18, Mr. B. A. Bull in the chair. A telegram from Major Saville Peck was read by The Chairman, thanking the Conference for its congratulatory message on the occasion of his eightieth birthday.

The Chairman called upon Mr. G. R. Boyes (joint secretary) to read the eighty-third annual report, and on the treasurer (Mr. T. Marns), for the financial statement.

Annual Report

The following items are included in the annual report of the Executive: The Conference has again met on a modified scale in London for the seventh successive year. The arrangements for this meeting have been made by a sub-committee consisting of the London members of the Executive, with Mr. T. Marns as chairman and Dr. G. R.

Boyes as secretary. A new feature, introduced an as experiment into this year's programme, was a Symposium Session. It is the wish of the Executive to include such a Session in the programme in future years, in order to provide an opportunity for the review and discussion of some current scientific subject of pharmaceutical importance. The Session will be in addition to, and not an alternative for, the Science Sessions.

The Executive records with deep regret the deaths of Dr. J. F. Tocher, senior vice-president and president of the Conference at the Newcastle meeting in 1909, and of Mr. Frank Browne, who was for many years closely identified with the activities of the Conference.

The Harrison Memorial medal and lectureship for 1945 was awarded to Mr. R. R. Bennett, B.Sc., F.R.I.C., for his lecture "The British Pharmacopœia," delivered at a meeting of the Pharmaceutical Society on January 10. The Executive has given careful consideration to the Conference research list with a view to making it more productive of papers for the science sessions of the Conference. A subcommittee consisting of Mr. B. A. Bull, Drs. H. Davis, F. Hartley, C. H. Hampshire, Messrs. F. W. Adams, H. Treves Brown and Dr. G. R. Boyes, with the addition later of Dr. T. E. Wallis and Professor H. Brindle, was appointed to consider all aspects of the research list. The subcommittee reported that the existing list appeared to have been of little direct use in suggesting subjects for Conference papers, although it might have had an appreciable indirect effect by giving rise to trains of thought resulting in the selection of other subjects. The subcommittee recommended instituting a scheme for providing advice to those who would not otherwise have the advantages of experienced supervision. The possibility of enlisting the services of persons having knowledge of particular branches of pharmaceutical science is being explored. In the meantime, publication of the Conference research list is suspended, and members of the Conference who have facilities for research work on subjects of pharmaceutical interest, and who need guidance in the choice of subject, are asked to communicate with the general secretaries.

Eighteen research papers have been discussed at the science sessions, and the Executive again record their thanks to the authors and to Dr. C. H. Hampshire, for placing the "Quarterly Journal of Pharmacy and Pharmacology" at the disposal of members. The Year Book of Pharmacy for 1945 is published as the eighteenth volume of the "Quarterly Journal of Pharmacy and Pharmacology." The fund for the purpose of creating a permanent memorial to the late Mr. C. E. Corfield will be closed shortly. The Executive proposes that the fund should be invested in Trustee Securities, and the interest therefrom used to provide an annual award of books to be given to selected authors of papers presented to the Science Session of the Conference. It is hoped in this way to provide a means of encouraging research in pharmaceutical chemistry, with which Mr. Corfield was so closely identified.

Nominations for Officers

The Executive Committee has nominated the following officers for 1946-47:—*Chairman,* Mr. B. A. Bull; *Vice-presidents,* Messrs. E. Saville Peck, D. Hooper and C. A. Hill; *Vice-chairmen,* Messrs. F. W. Gamble, R. R. Bennett, J. H. Franklin, C. H. Hampshire, F. W. Crossley-Holland, H. Deane, H. Humphreys-Jones, A. R. Melhuish, T. E. Wallis and H. Brindle; *Treasurer,* Mr. T. Marns; *Secretaries,* Messrs. G. R. Boyes and H. Treves Brown. *Other members of the Executive,* Messrs. K. Bullock, J. C. Hanbury, F. Hartley, R. Maxwell Savage, N. Evers, H. Berry, with Mrs. J. K. Irvine, Miss M. C. Islip and Mr. F. G. Wells, nominated by the Council of the Pharmaceutical Society. If these recommendations are adopted, the above persons will be the officers of the Conference, together with the following, *ex-officio: President,* the president of the Pharmaceutical Society of Great Britain. *Other members of Executive:* The president of the Pharmaceutical Society of Ireland and Pharmaceutical Society of Northern Ireland, the chairman of the North British Executive of the Pharmaceutical Society of Great Britain, the chairman of the local committee and the local secretary. The Executive has given consideration to the time of year at which the meetings of the Conference should be held in future, and has accepted the middle of September as a satisfactory alternative for next year's meeting. The Executive welcomes the possibility of resuming a series of provincial meetings.

Treasurer's Report

The treasurer's report showed that income from subscriptions in 1946 paid by elected members was £66. A composition fee of £25 had been received under Rule 2 from

the Pharmaceutical Society of Northern Ireland. These amounts had been credited to the account of the "Quarterly Journal." The expenses of the Conference were £52, and the total amount expended was £107 less than in 1945. The Conference balance sheet showed, in addition, assets totalling £1,587. Presentations of books under the Bell and Hills Funds had been discontinued during the war.

MRS. J. K. IRVINE proposed, and Mr. J. C. YOUNG seconded the adoption of the reports.

1947 Conference Venue

MR. HUGH HOLMES, Torquay, on behalf of the Torquay Branch of the Pharmaceutical Society, invited the Conference to hold its 1947 meeting in Torquay, and MR. BARNES (a member of the Torquay Corporation's publicity committee) supported the invitation.

MR. T. MARNS proposed acceptance; MR. J. C. HANBURY seconded, and the motion was carried.

Election of Officers

The election of officers nominated in the annual report of the Executive Committee (see p. 118) was proposed by MR. J. H. GOUGH. MR. MATTHEWS seconded the motion, which was then carried with acclamation.

MRS. J. K. IRVINE referred to the Conference as "a memorable though a semi-austerity one," and looked forward to increasing social activities at future Conferences.

MR. A. NUTTER SMITH, proposing a vote of thanks to the chairman, described Mr. Bull's chairmanship of the Conference Executive as a "crowning glory to the close of an active pharmaceutical life." MR. J. C. YOUNG seconded the motion which was carried with enthusiasm.

THE CHAIRMAN, in reply, paid tribute to the work of Dr. Boyes, Mr. Treves Brown and the members of the Conference Executive, and thanked the contributors of the papers and all those who had contributed to the discussions.

MACHINERY NOTES

Bottle-filling Machine

THE makers of Valco automatic bottle-filling machines for liquids (Valley Products (Lye) Ltd., Lye, Stourbridge), draw attention to their model L-1, for which they claim "no taps, no drip, no overflow." Placing the bottle on the spring table of the machine starts the flow of liquid, which ceases at a pre-determined level. Smaller bottles are filled by pressing against a rubber pad. All necessary parts are removable for cleaning and the machine is finished in cream and white enamel with stainless steel feed tubes and chromium-plated fittings. Inquiries are invited for this and other types of bottle-filling machinery.

Continuous Conveyor Weigher

A WEIGHING machine for use with a continuous conveyor is manufactured by Adequate Weighers, Ltd., London and Slough. The machine gives the totalised weight of material passing over any type of belt or bucket conveyor in a given time and can be arranged to record, on a daily chart, the machine's performance. The weigher is supplied with a self-contained unit which, the makers claim, can be fitted on any existing conveyor without alteration to the structure. At all conveyor speeds up to 300 ft. per minute the weigher needs only one "idler" suspended from its weighing system. At higher speeds the use of an articulated weigh-table is recommended, in order to increase the weigh length and permit the mechanism to respond to the load rapidly by gravity.

Electrode Boilers

NOTABLE progress is being made in the design of electrically heated steam boilers on the electrode principle, using a/c mains. For many establishments the method has advantages over gaseous, liquid or solid-fuel firing. Among the advantages are simplicity and small size. No flues or special ventilation are necessary, and the boiler can be placed alongside the steam-using equipment. The boilers can be started up from cold and be ready in a few minutes, and change-over in rate of steam production or steam pressure is a matter almost of a few seconds. Prominent makers are Bastian & Allen Ltd. Bedford Square, London, W.C.1, whose standard electrode steam boilers, vertical and cylindrical, of solid drawn steel, are available in sizes within the range of 25-1,000 kw., taking a/c supply at 346-440 volts (three-phase 50-cycles), and evaporate 75-3,000 lb. of water hourly. Approximately the performance is 3 lb. evaporation per kilowatt-hour.

N.H.S. TALK AT BANGOR

At a meeting of the North Carnarvonshire Branch of the Pharmaceutical Society held in Bangor recently Mr. W. J. Tristram (a member of the Society's Council) gave an address on "The New Health Service," which was followed by questions and discussion, an abstract of which is given below. Mr. T. Noel Dixon, Bangor, was in the chair.

Mr. Charles Parry, Colwyn Bay, stated that the opinion held in some quarters that National Health Insurance dispensing was a paying proposition was a wrong one and should be discarded by those who were to negotiate the terms of payment in the new scheme, and expressed concern that pharmacists might be used by the Minister of Health until the health centres were ready, when their services might be discarded. In reply Mr. Tristram said that he hoped for adequate remuneration, and pointed out that the position of pharmacy was unique in that it was the only section coming within the health scheme which was not completely socialised.

Mr. H. R. Evans, Bethesda, hoped that the position of country chemists would be borne in mind when the question of doctors in rural areas being allowed to do their own dispensing was again raised. Mr. Tristram said that he thought this matter would be best dealt with by local committees who would best appreciate the needs of their own locality, but it would be discussed at the forthcoming meeting of chemists with the doctors.

Mr. Ll. W. Jones, Amlwch, asked Mr. Tristram what steps he thought ought to be taken by pharmacists who were elected members of local authorities in order to be of the greatest help to pharmacy. Mr. Tristram thought that all such members would do well to become members of the Health Committees, and suggested that more pharmacists should seek representation on their local councils. Mr. Jones also in addition asked what would be expected of the pharmacist in the way of a twenty-four-hour service and Mr. Tristram replied that, although it might not be necessary to maintain a full twenty-four-hour service, chemists might be obliged to keep open longer but this could probably be done by rota.

Mr. Tristram was thanked on the motion of the Vice-president (Mr. W. J. Owen), seconded by Mr. Jones.

A collection taken for the Society's Benevolent Fund realised £5.

ESSENCE MANUFACTURERS

The annual general meeting of the British Essence Manufacturers' Association was held on July 17, the chairman (Dr. P. C. C. Isherwood) presiding. The chairman presented a report, from which the following points are taken:

Dr. Isherwood said the Association had dealt with a large number of matters during the year under review and the bulk of work undertaken by the Executive Officers had been heavy. Dr. Isherwood reminded members that Mr. Cecil Bush had continued to act as Association's representative on the Essential Oils Advisory Committee and had undertaken in this connexion a great deal of work. On behalf of members he wished to express sincere thanks to Mr. Bush for his work.

Another matter which was of considerable interest to members was the question of the supply of concentrated fruit juices. The Committee had been constantly in touch with the Ministry of Food on this matter and at the beginning of the year all members had been asked to submit details of their requirements in the hope that the Ministry would subsequently be able to agree either to the individual importation of juices or to an allocation scheme. Unfortunately certain factors had rendered the situation less favourable than was anticipated. As a result, the Ministry had been unable to agree to the importation of juices, though soft fresh fruit could be imported from a limited range of countries under open general licence. The Committee had discussed this matter at length with the Ministry and were satisfied that the present situation did not permit of any better arrangements being made. It only remained to hope that essence manufacturers would be more fortunate next year.

Election of Officers

Dr. Isherwood was unanimously re-elected *Chairman* for the ensuing year and the *Committee* was re-constituted. Mr. F. G. Pentecost (A. Boake, Roberts & Co., Ltd.) and Mr. W. Y. Duckworth (Duckworth & Co. (Essences), Ltd.) were elected following the resignation of Messrs. F. W. Lewis and W. Duckworth, to whom the meeting expressed a warm vote of thanks for past services. The remaining members of the *Committee* and Mr. W. Watts (*Treasurer*) were unanimously re-elected. In accordance with the Rules of the Association, the appointment of Mr. R. D. F. Marlow, D.S.C., who took up the duties of *Secretary* in January, was confirmed.

CORRESPONDENCE

Correspondents may adopt an assumed name, but must in all cases furnish their rea name and address to the Editor.

Dispensing by the Unqualified

SIR,—Mr. F. C. Wilson suggests that the law should forbid the dispensing of potent drugs by anyone except qualified chemists. The pharmaceutical Press is not the best place for propaganda of that sort. He is preaching to the converted. As a member of the Council of the Pharmaceutical Society he is in a position to make some concrete effort to have the law altered. After all is that not the sort of thing he has been elected for. Or is it?—Yours faithfully,

Anstruther. R. S. WHITELAW.

[In justice to Mr. Wilson it should be pointed out that his letter, sent to the *C. & D.*, was also widely sent out to organs of the lay Press, many of which gave it publicity.—EDITOR.]

Containers for Penicillin Cream

SIR,—In a recent article on penicillin you very kindly stated "penicillin cream should be properly packed and not placed in a chip box." It is to be hoped this statement was made as facetious humour and was really not warranted. As some medical friends have seen it and not considered the possibility that it was a "tongue in the cheek" remark, may I respectfully suggest before such statements are printed in the future you give them careful consideration, for examples like this are only liable to bring pharmacy in more disrepute than it exists at the moment (if that is possible!). It would be possible to suggest that the current lunatical dispensing fees miserably handed out in a very belated manner by the Ministry of Health are but worthy of such inadequate pharmaceutical knowledge that would permit packing penicillin cream in a chip box. However, I cannot believe that even the merchandising specialist managers of chain-store druggists' are capable of being found in need of such a directive as you give. Yours faithfully,

Ripley. KENNETH E. WHITE.

Glyn-Jones Memorial Fund

SIR,—I was glad to see Mr. Umney's letter in your issue last week. As one of the trustees of the Glyn-Jones Memorial Fund I have been greatly concerned at the number of most deserving cases which we have been unable to help by reason of lack of funds. Time after time, when the last £50 or £100 has had to be divided, it has been an impossible task to choose from the remaining group of applicants, and one ha been conscious that, whatever decision th trustees made, some first-rate students wer being condemned to forfeit their vocation I therefore commend Mr. Umney's appea not only to those who have gratefu memories of Sir William Glyn-Jones bu to those who feel that a contribution t their own calling might take the form o assistance to able newcomers who lac means.

Yours faithfully,
HUGH N. LINSTEAD.

London, W.C.1.

SIR,—I write to support the appeal fo contributions to the Glyn-Jones Memoria Fund made by the chairman of the Associa tion (Mr. E. A. Umney). Mr. Mallinso has emphasised the reasons why those de serving and necessitous young persons o orphans connected with pharmacy wh have applied to the Trustees should, if i can be managed, receive the financial assist ance which will enable them to qualify a pharmacists. I would like to remind you readers that the Fund is a Memorial to Si William Glyn-Jones—a memorial which he we are sure, would have most whol heartedly approved. This year, we are celebrating the fiftieth anniversary of the foundation of the P.A.T.A., the organisatio with which Sir William's memory is mos closely linked. May I suggest that pharmacists who benefit from, and are able t appreciate the value of, the Associatio which Sir William Glyn-Jones founded ca most appropriately show their appreciation and at the same time fittingly commemorat its Golden Jubilee, by responding as generously as they can to Mr. Umney's appeal.

Yours faithfully,
H. E. CHAPMAN, *Secretary*,
Proprietary Articles Trade Association.

London, W.C.1.

Medicine of Tomorrow?

SIR,—I enclose an excerpt from a book I have read and enjoyed—"The Time of My Life," by H. C. de Vigne, a frontier doctor in Alaska. Is it a preview of what we may expect when the new Health Bill gets into full swing? The following quotation from the book may interest your readers:—

> If present trends are criteria, the future physician, in a decadent era, may himself

afford an example of ambitious art's triumph over improvident nature. He will have been speeded into a carefully sterilised segment of the world by an obstetrician via the quick, painless and æsthetic abdominal route. Standing by will be a pediatrician to check his weight, measure his length and prescribe his nutriment, unpredictable in composition, but assuredly not derived from his mother's breast. An endocrinologist will supervise his growth and development, a neuropsychiatrist his reactions, mentality and aptitudes. He will have one or more rounds with epidemiologist, dermatologist, laryngologist, oculist, aurist, orthopædist, assorted surgeons. Having been tested, analysed, vaccinated, immunised and insulated against life's stormy blasts, he will, if spared, reach maturity bereft of his adenoids, tonsils, appendix, adhesions, birthmarks and pimples. The urologist, serologist, allergist, proctologist and cardiologist will then take over and contribute their mites to his well-being. It is not to be presumed that his position will be anomalous; having kept abreast the times, he will fit nicely into the spineless, gutless society in which he moves. To exist will by then have become an effortless routine, his *clientèle* bolstering its minor strains with an infallible placebo prescribed every hour over the radio, dispensed at every soda fountain.

Yours faithfully,

Clacton-on-Sea. J. W. PRIVETT.

BRITISH COSMETICS AND THE PUBLIC

Statement by Chairman of Manufacturers' Federation

ARISING out of the Board of Trade's statement that limited quantities of cosmetics were to be imported from the United States, the chairman of the Toilet Preparations and Perfumery Manufacturers' Federation of Great Britain, Ltd., through its chairman (Mr. L. J. Matchan) recently issued the following statement to the daily Press:—

Imported and Home Supplies

The Government have just announced that limited imports of cosmetics and other toilet preparations will be coming from the U.S.A. Similar arrangements have been made with Canada and France and are likely to be made with other countries. As the public will presently be seeing these goods in the shops, I should like to explain the real position of the British industry, otherwise there is a real danger of an impression arising which might reflect unfairly on British manufacturers. Supplies of British-made cosmetics and other toilet goods for the shops at home are still restricted by the Board of Trade, so that manufacturers can devote their energies primarily to our vital export trade; added to this the public demand is so great that the supplies are mostly snapped up as soon as they reach retailers. The imported cosmetics and perfumes, however, will be less familiar and may thus perhaps be seen about in the shops more before they are bought up. They are also likely to be more attractively packed than British products, which are still largely in their war-time dress, although the quality of their contents is high and we have no fear of competition from imported goods on that score. Materials for containers and packaging of the high standard we would like to offer the public at home are, however, scarce and we must necessarily use them first for our export trade, where competition is unrestricted.

A Proud Achievement

In point of fact, the British industry is doing an export job of which it is proud. In the six months just ended, toilet preparations exports were at three times the pre-war rate, and in half a year we have passed the target the Government set us for the whole year. As a result, British manufacturers have earned for themselves the right to supply more goods for the home market and we hope that, in the coming months, as production facilities gradually improve and containers supplies increase, we shall slowly but surely be able to deliver more to the shops of Britain. Until then, we ask the public to be forbearing and not to draw false conclusions from what they hear and may soon see of imported cosmetics. We ask them to remember that our exports are making an important contribution to the nation's ability to buy foodstuffs and other essentials from overseas.

Make Mine Medicine.—"The definition of 'soft drink' has been amended to provide that 'an article shall not be deemed not to be a drink by reason only that it is also capable of being used as medicine.'" Paragraph from an official notice, with title suggested by the "Daily Telegraph."

OVERSEAS TRADE NEWS

Japanese Oils and Fats Production.—Japanese production of oils and fats during January-May, 1946, totalled 826 tons, compared with 28,500 tons in 1940.

Uruguayan Tallow Exports.—The export of 1,300 tons of industrial tallow and 2,000 tons of edible fats has been authorised by the Uruguayan Government.

British Penicillin for Turkey.—Ankara Radio stated on July 19 that penicillin is being imported into Turkey from Britain and Switzerland in sufficient quantities to supplement imports from the U.S. and meet every local demand.

Soviet Ministry for Cosmetics.—It is officially announced in Moscow, according to Reuter, that a new ministry is to be formed in the Soviet Union to control the sale and manufacture of alcohol, wine, liqueurs, perfumes and cosmetics.

Argentine Oilseeds Regulations. — A message from Buenos Aires states that the Argentine Government has now published a decree for regulating trade in oilseeds, but it is confined to regulations covering Government Agency purchases from producers. The publication of further regulations is expected shortly.

French Chemical Industry.—The French chemical industry is trying to re-establish itself in its important pre-war position in the export market, when it was led only by steel and textiles. The French economic Press is putting forward the idea that France could capture markets previously dominated by the Germans, i.e., South American, European and Middle East countries.

U.S. Scientists to Visit Russia.—A message from the Hague states that seven U.S. scientists have arrived by air in Amsterdam on their way to Russia where they will study the possibilities of penicillin manufacture. One of them, Dr. Edward Young, of Faulkner Hospital, Boston, said that during the visit, which is under the auspices of American relief for Russia, they would found in Moscow a research laboratory for modern medicinal drugs.

U.S. Fats and Oils Markets.—With the clarification of the price situation still pending, no offerings of fats and oils are being received in the primary trade. The third-quarter allocations of edible fats and oils for civilians amount to 384,500,000 lb., those for commercial exports to 69,200,000 lb., and exports to be made by the Government to 69,200,000 lb. This compares wit 997,100,000, 86,300,000 and 158,300,00 lb., respectively, during the second quarte of this year.

Indian Oilseed Crops.—The final est mate of the 1945-46 Indian linseed cro places production at 369,000 tons, and th area planted at 3,376,000 acres, compare with 392,000 tons and 3,465,000 acres la year. The combined rapeseed and mustarc seed crop is placed at 910,000 tons, and th area at 5,497,000 acres, against 1,034,00 and 5,580,000, respectively, a year ag Crops generally have suffered from drougl and the failure of the winter rains, but th position on the whole is fairly good.

Indian Export Ban to be Lifted.—Th ban on the export of certain commoditi from British India will soon be lifted b the Government of India, it is learned i Bombay. A communique will be issued ex plaining the future of export trade contro It is also learned that the partial ban o the export of cashew nuts has been re moved. It is understood that the Britis Ministry of Food has agreed to release fo internal consumption, the present stocks o oilseeds held at various ports in India.

Indian Groundnut Oil Pricing.—Maxi mum prices for groundnut oil have bee officially announced in New Delhi. I southern districts, the maximum price of oi containing not more than 4 per cent. o free fatty acid is Rs. 36.8 per imperia maund, ex mill, naked, while for oil with fatty acid content exceeding 4 per cent. th maximum price is Rs. 35. Respective rate for northern districts are Rs. 38 an Rs. 36.8. While these levels compare fav ourably with recent prices, merchants stat that no provision has been made for trans port charges.

China to Help Export Trade.—Im portant measures to revive China's expor trade have been decided upon by th Chinese Government. It is reported that besides extending loans at low interest rate to exporters, the Chinese Government ha agreed to provide cheap shipping trans portation from the hinterland to seaports and is contemplating the suspension o Customs duties on exports during th present crisis. If the Government can pro vide enough shipping for the transportation of native products from the interior, trade circles state, one of the major obstacles to the development of China's export trade will be removed.

TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale quantities of standard quality. Prices of crude drugs and essential oils vary according to brand or grade.

28 Essex Street, W.C.2, July 24

QUIET but steady conditions have continued in the drug and chemical markets during the past week, with values showing little alteration from recently quoted levels. Reports of arrivals and goods on the way tend to ease the supply position, but much more is wanted before a substantial business can be done. In the meantime merchants are kept busy with inquiries, a large proportion of which fail to yield business. Latest reports from makers and dealers in the PHARMACEUTICAL CHEMICALS markets indicate a steady trade at unchanged rates. Reasonable stocks of most items are available, but in a few instances business is restricted by lack of supplies.

Crude Drugs

Conditions in these markets are quiet, with few prices changes to record. A good deal of inquiry continues to be received for Japanese AGAR; it is rumoured in trade circles that the Government is considering bringing in supplies. The forward value of Cape ALOES is higher. ANTIMONY is in good demand, with officially approved prices unchanged. CANADA BALSAM is at the higher level quoted last week. Good sales are reported of Sumatra BENZOIN now on the way; further supplies will be shipped in about a month's time. BISMUTH METAL continues firm. Fair quantities of CASCARA SAGRADA seem to be afloat. CHILLIES and other SPICES continue quiet with prices unchanged, except in the case of CLOVES which are slightly cheaper on the spot. COLOCYNTH is selling slowly at the price quoted last week. The position of Brazilian MENTHOL is unchanged; some business is reported in Chinese at a price that will permit spot sales on a level with the Brazilian material. Shipment quotation for Cochin NUX VOMICA is rather firmer on reports of American and Canadian buying. Fair supplies of RHUBARB are now landing. Minor alterations have occurred in WAXES. An official announcement by the Board of Trade regarding GALL NUTS states that no further purchases of this item will be made on Government account. In future all imports will be through normal trade channels.

Essential and Expressed Oils

Little of interest has occurred in these markets during the past week. Prices of ESSENTIAL and FIXED OILS are unchanged.

Exchange Rates on London

Bank of England fixed rates at the opening on Wednesday morning were:—

Centre	Quoted	July 24
*Alexandria ...	Piastres to £	$97\frac{3}{8}$–$97\frac{5}{8}$
Brussels	Francs to £	$176\frac{1}{2}$–$176\frac{3}{4}$
Copenhagen ...	Kroner to £	19.32–19.36
Dutch West Indies	Florins to £	7.58–7.62
Oslo	Kroner to £	19.98–20.02
Paris	Francs to £	479.7–480.3
Lisbon	Escudos to £	99.80–100.20
Montreal	Dollars to £	4.02–4.04
New York ...	Dollars to £	$4.02\frac{1}{2}$–$4.03\frac{1}{2}$
Stockholm ...	Kroner to £	14.47–14.50
Zurich	Francs to £	17.34–17.36

* Free market rate.

U.S. Drug Market Report

New York, July 19

PRICES for most chemical items produced in the U.S. have remained around the levels which prevailed under the Office of Price Administration. Because of the tight domestic situation in synthetic CAMPHOR, and the ensuing increased interest in the natural Far-Eastern product, offerings from China are completely out of line with U.S. buyers' ideas, according to reports reaching here. Some Chinese MENTHOL is reported available here at $8.25 per pound, duty paid; Brazilian producers are demanding $8.50 and in view of the very limited supplies which are expected from the Far-East—during the next season at least—the quotation is expected to advance further. A good export demand for ACETYLSALICYLIC ACID is reported but domestic requirements are at present absorbing virtually all current production. BOTANICAL DRUG collection reports are not regarded as favourable; a few items have been gathered in moderate quantities but the majority have been neglected, it is stated. While shipments of Central European produce have been increasing of late, there are indications that about half of the current crop has been lost as a result of insufficient rain. The tight domestic supply outlook is further aggravated by continued Food and Drug

Administration rejections of imports as a result of inferior quality. Reports from India say that old contracts for PSYLLIUM HUSKS have been cancelled because of the refusal of the F.D.A. to permit entry into the U.S. The first shipments of ROTENONE ROOT from Brazil have been reported, and the trade is of the opinion that the shortage of this material in the U.S. will be considerably relieved within a few weeks. More than 3,000 bales of PYRETHRUM FLOWERS have arrived here from an East African port though the outlook regarding supplies from Japan is very gloomy. Some Indian KARAYA arrived here recently and moderate quantities of LOCUST BEANS were shipped from Spain, Italy and Portugal. Reasonable supplies of English HAWTHORN BERRIES are expected before the end of the year though up to the present time, arrivals have been very small. Among the ESSENTIAL OILS and AROMATIC CHEMICALS, prices have tended to decline over the past week. BERGAMOT is plentiful though late reports from Italy are firmer than in recent weeks. Demand for all the CITRUS OILS is good but LEMON, LIME and ORANGE are not abundant. Distillation of PEPPERMINT is scheduled to start shortly—the present crop has been estimated around 1,000,000 lb. Among the AROMATICS, ethers used extensively in perfumery and flavourings are in short supply.

Pharmaceutical Chemicals

ACETANILIDE.—Makers' price is steady at 2s. 5d. per lb. for powder, and 2s. 6d. for crystals.

AMPHETAMINE.—Makers' price is unchanged at 150s. per lb.

ASPIRIN.—The following are makers' current rates per lb. for the home market in quantities of 28 lb.-1 cwt. (containers in brackets): 4s. 1½d. (1-lb.); 4s. (4-lb.); 3s. 11d. (7-lb.); 3s. 10½d. (14-lb.); 3s. 9½d. (28-lb.).

ASPIRIN TABLETS.—Makers quote bulk supplies per 1,000 as follows: Under 5,000, 3s. 6d.; 5,000 and over, 3s. 4d.; 10,000, 3s. 3d.; 25,000, 3s. 1d.; 50,000, 3s.; 100,000, 2s. 11d.; 250,000, 2s. 10½d.; 500,000, 2s. 10d.; 1,000,000 2s. 9d.

ATROPINE.—Home market prices per oz. are: ALKALOID, 42s. 6d.; 4 oz., 42s.; 25 oz., 41s. 6d. SULPHATE, 34s.; 4 oz., 33s. 6d.; 25 oz., 33s. METHYLBROMIDE and METHYLNITRATE, 75s.

BARIUM SULPHATE, B.P. (*x*-ray).—Prices per lb. quoted by makers, in 28-lb.-1 cwt. lots, for home sales are (containers in brackets): 1s. 6d. (1-lb); 1s. 4½d. (4-lb) 1s. 3½d. (7-lb.); 1s. 3d. (14-lb); 1s. 2d (28-lb). Prices are net, one month.

CHLORAL HYDRATE.—Steady; current prices are as follows: 1 cwt., 3s. 10d. per lb.; 56 lb., 4s.; 28 lb., 4s. 2d.; 14 lb. 4s. 6d.; 7 lb., 4s. 9d.; less, 5s. 3d.

GLUCOSE.—Powdered monohydrate for the home trade is quoted as follows: 14 lb.-28 lb., in 14-lb. lots, 11¾d. per lb.; 28 lb.-112 lb., in 14-lb. lots, 11½d.; 28-lb., 10¼d

HOMATROPINE.—Makers' prices per oz are as follows (prices per gram in brackets): ALKALOID.—1 oz., 97s. 6d.; 4 oz., 92s. 6d. 16 oz., 87s. 6d. (4s.). HYDROCHLORIDE HYDROBROMIDE and SULPHATE.—1 oz. 75s.; 4 oz., 70s.; 16 oz., 65s. (3s. 2d.).

MANDELIC ACID.—In good demand. Current quotations are as follows: 1 lb., 22s per lb.; 4 lb., 20s. 3d.; 7 lb., 18s. 6d.; 14 lb., 16s. 9d.; 28 lb., 15s.

METHYL SALICYLATE.—In fair supply. Smalls are quoted at 2s. 6d. per lb.; winchesters at 2s. 1½d.; 56 lb., in demijohns 2s.; 1 cwt., in demijohns or carboys, 1s. 11½d; 5 cwt., 1s. 11d. All prices net.

PHENOLPHTHALEIN.—Current prices are: 1 cwt., 4s. 10d. per lb.; 28 lb., 5s.; 14 lb. 5s. 3d.; 7 lb., 5s. 6d.

Crude Drugs

AGAR.—Inquiries continue to be received for Japanese, but so far no correspondence with Japan has been permitted. It is rumoured in trade circles that the Government is considering bringing in a quantity of agar from Japan.

ALOES.—Forward value of Cape is now 140s. per cwt., c.i.f. Curaçao is firm at 250s., c.i.f.; spot 300s.

ARECA NUTS.—Spot price is steady at 70s. per cwt.; shipment, 50s. c.i.f.

BALSAMS.—*Canada* is now quoted on the spot at 14s. 6d. per lb., and *Peru* at 7s. 6d., in bond, and 8s. duty paid.

BENZOIN.—A parcel to arrive is selling well at £25 per cwt., landed weight. Further supplies are expected to be shipped.

BISMUTH.—High-grade metal continues firm at 9s. per lb., for minimum 5-cwt. lots.

BUCHU LEAVES.—Obtainable on the spot at 4s. 9d. per lb.

CARDAMONS.—Scarce; prices unchanged. Aleppy seed, spot, 8s. 6d. per lb.; Aleppy greens, 7s. 6d.; Mangalore heavy, 6s. 6d.

CASCARA SAGRADA.—The position as outlined last week (p. 94) is unchanged. Fair quantities appear to be afloat.

CASCARILLA.—Demand continues with quills steady at 2s. 9d. per lb., on the spot.

CHAULMOOGRA.—Spot price of *Hydnocarpus* is unaltered at 2s. per lb., in tins in cases.

CINNAMON.—Chips are quoted on the spot at 2s. 2d. per lb.

CLOVES.—Spot sellers of Zanzibar at the easier price of 1s. per lb; shipment, July-August, 9¾d. per lb., c.i.f., buyers' licence.

COCHINEAL.—Silvers are obtainable on spot at 5s. 6d. per lb., and blacks at 5s. 9d.

COLOCYNTH.—Selling slowly at the unchanged price of 2s. 9d. to 3s. per lb., on the spot.

DIGITALIS LEAVES.—Portuguese is unaltered on spot at 130s. to 140s. per cwt., and English at 2s. 6d. per lb.

ERGOT.—Spot quotation is unchanged at 7s. 6d. per lb., with afloat material at 7s.

GUM ACACIA.—Kordofan cleaned sorts is firm on spot at 77s. per cwt; bleached, steady at 150s.; Talha, cleaned, 42s. 6d.

HENBANE.—Indian leaf is quoted on the spot at 250s. per cwt.; Egyptian (*muticus*) may be had at 90s.

KOLA NUTS.—African quarters may be had at 8d. per lb., African halves at 6d., and Jamaican washed halves at 7d.

MENTHOL.—Price from Brazil is unchanged at 41s. per lb., f.o.b., indicating a spot price of around 50s., duty paid. It is understood that a small business has been done with China at 43s., c.i.f., which would also mean a spot price of about 50s., duty paid.

NUX VOMICA.—Shipment quotation for Cochin is rather firmer at 40s. per cwt., c.i.f., on reports that America and Canada are buying considerable quantities.

PIMENTO.—Quiet. Spot, sellers at 1s. 1½d.; shipment, 122s. 6d., c.i.f., buyers' licence.

QUILLAIA BARK.—Natural, spot, 125s. per cwt.; cut, 145s.

RHUBARB.—Common-round now landing will be available at 12s. to 14s. per lb., duty paid.

SAPONIN.—Chilean at 9s. per lb., ex wharf Liverpool, in bond.

SEEDS.—Current prices of imported seeds are as follows: CORIANDER.—Spot, Indian, 100s. per cwt.; Moroccan, 95s., duty paid. CUMIN.—Spot, Indian, 205s., ex wharf, London. CELERY.—Spot, Indian, 1s. 6d. per lb., London. DILL.—Spot, Indian, 67s. 6d. per cwt., ex store, Liverpool; 70s., ex wharf, London. FENNEL.—Spot, Indian, 160s., ex wharf, London. FENUGREEK.—Spot, Indian, 67s. 6d., ex store, Liverpool; 70s., ex wharf, London.

SENEGA ROOT.—Prices in Canada appear to have fallen, but as holders of licences have already bought supplies, no advantage will accrue. Last price was $2.50 per lb.

SQUILL.—Some brown material is quoted on spot at 45s. per cwt.

TRAGACANTH. — Selected grades are quoted at £160 per cwt. Medium grades are quoted as follows: No. 1 white, £145 per cwt.; No. 2 white, £125; No. 3 white, £110; No. 4 white, £85; pale leaf, £50; amber leaf, £50; dark amber, £35; brown leaf, £25; red-and-brown leaf, £20; red leaf from £17; hoggy, £12 to £15.

TURMERIC.—Spot, Madras finger, 95s. per cwt., ex wharf, London; 92s. 6d., ex store, Liverpool.

VALERIAN.—Belgian root is steady on the spot at 250s. per cwt.

WAXES.—Current rates for CARNAUBA are: Fatty grey, spot, 1,050s. per cwt.; chalky, 1,030s.; prime yellow, 1,200s.; fatty grey, afloat, 1,015s.; mediana, afloat, 1,150s. BEES'.—Quoted on the market as follows: Dar-es-Salaam, spot, 345s. per cwt.; Benguela, spot in bond, 300s.. OURICURI.—July August, 620s. per cwt., c.i.f. CANDELILLA.—Spot, 400s. per cwt.; to arrive, 490s.

Essential and Expressed Oils

CASTOR.—Bulk supplies are quoted as follows: "Firsts," £82 per ton; "seconds," £80, both naked ex works.

CLOVE.—Bud oil is quoted by English distillers at 12s. per lb.

COCONUT.—Bulk supplies of crude oil continue at £49 per ton, but refined deodorised was recently advanced by £7 per ton to £56. Refined hardened deodorised was increased by £7 per ton to £60. All prices are naked ex works.

COTTONSEED.—Official quotations are as follows: Crude, £52 2s. 6d. per ton; washed, £55 5s.; refined edible, £57; refined deodorised, £58, naked ex works.

GROUNDNUT.—Bulk supplies are officially quoted as follows: Refined deodorised, hardened to 40°, £62 per ton; refined deodorised, hardened to 50°-52°, £63.

MISCELLANEOUS INQUIRIES

It should be noted that some of the replies included in these columns may have been prepared for overseas subscribers. Items listed in formulas are not necessarily available in Britain; their use may also be controlled or prohibited under Orders operative in the home territory.

DDT Insecticides.—*I.L.*—The *p.p.* dichloro-diphenyl-trichlorethane content of most general-purpose powder insecticides is about 5 per cent. Any suitable inert powder may be used as base.

Soapless Detergents.—*C.S.*—The preparations usually referred to as soapless detergents are sulphonated glyceryl esters of higher fatty esters or sulphonated higher fatty alcohols. There are makers in this country and a list is being forwarded to you.

Leg Make-up.—*F.S.P.*—The first formula below gives a liquid product sometimes described as an artificial stocking :—

Zinc stearate	2
Titanium dioxide	3.5
Colloidal aluminium magnesium silicate gel	20
Isopropyl alcohol	6
Umber	½
Yellow oxide	2½
Red oxide	2½
Propylene glycol	1
Methyl cellulose (viscosity 1,500)	½
Water, perfume, and preservative to	100.

Mix the isopropyl alcohol, an equal part of water, the propylene glycol, and the perfume. Blend in the zinc stearate and pigments, and mix until smooth. Make a mucilage of the methyl cellulose with the remainder of the water. When prepared, mix in the colloidal silicate gel, add this mixture to the pigments, and mix thoroughly, taking care not to occlude air.

If a cream preparation is preferred, the following may be satisfactory :—

Stearic acid	18
Spermaceti	3
Sorbitol	6
Mineral oil	1
Amino glycol	3
Zinc stearate	8
Titanium dioxide	3
Pigment	3
Water to	55

Chiropodists' Organisations. — *B.N.R.* —The organisations of chiropodists recognised by the Board of Registration of Medical Auxiliaries, British Medical Association House, Tavistock Square, London, W.C.1, have recently amalgamated and have formed the Society of Chiropodists, Ltd., 21 Cavendish Square, London, W.1. The organisations concerned are the Incorporated Society of Chiropodists ; British Association of Chiropodists ; Chelsea Chiropodists' Association ; Northern Chiropodists' Association ; Chiropody Practitioners (N.I.Ch.), Ltd. ; Central College of Chiropodists.

TRADE MARKS

(*From "The Trade Marks Journal," July* 3)

"OTHINOL"; for pharmaceutical substances, medical and surgical plasters, material prepared for bandaging, disinfectants (5). By Ciba, Ltd., 141-227 Klybeckstrasse, Basle, Switzerland. 638,412.

"RO-MA-KUBE"; for medicated toilet preparations (5). By Cross & Max (Agencies), Ltd., 17-18 Bishops Court, Old Bailey, London, E.C.4. 638,937.

"ORAVAC"; for vaccines (5). By Calmic, Ltd., Lostock Grange, Westhoughton, Lancs. 639,372.

"RESTAMON"; for pharmaceutical substances and preparations (5). By Allied Laboratories, Ltd., 140 Park Lane, London, W.1. 640,102.

"LEDERCILLIN"; for penicillin (5). By Lederle Laboratories, Inc., 30 Rockefeller Plaza, New York, U.S.A. 640,693.

Conventional design of rose; for sun glasses (9) and baby soothers (10). By Rosedale Associated Manufacturers, Ltd., Central House, 34-36 Oxford Street, London, W.1. 640,078-79.

"STILLE"; for medical, surgical and dental instruments and apparatus (10). By Aktiebolaget Stille-Werner, Bondegatan 21, Stockholm, Sweden. B618,060.

(*From "The Trade Marks Journal" July* 17)

"CRILL"; for chemical products used in industry (1). By Croda, Ltd., Croda Works, Rawcliffe Bridge, Goole, Yorks. B639,373.

"NALEMKIL"; for chemical products used in industry, science, photography, agriculture, horticulture and forestry (other than insecticides, fungicides and preparations for killing weeds) (1); for all goods (5). By Savory & Moore, Ltd., 61 Welbeck Street, W.1. 640,721-22 (Associated).

"MASTA-CREME"; for hair cream for sale in Lancashire (3). By Palmyra Laboratories (Liverpool) Ltd., Palmyra Works, Aigburth Vale, Liverpool 17. B627,629.

"SPRUCE"; word superimposed on device of spruce tree (word "spruce" disclaimed); for detergent (3). By Thomas Hedley & Co., Ltd., Phœnix Buildings, Collingwood Street, Newcastle-on-Tyne. B637,426.

"THORPIN"; for stain-removing preparations (3). By Thawpit (Proprietary), Ltd., Woodstock Factory, Woodstock Grove, Shepherds Bush, London, W.12. 639,560 (Associated).

"L'AIR DU TEMPS"; for toilet preparations (not medicated), perfumes, and soaps (3), brushes combs and sponges (21). By Nina Ricci, 20 Rue des Capucines, Paris, France. 640,327-28.

"MELODERMA"; for toilet preparations (not medicated) for the skin (3). By John Tarbet Ferguson, 7 Fillyside Avenue, Edinburgh, 7. 640,352.

"WILTO"; for stain removing preparations (3). By Craig Brothers, 198 Padiham Road, Burnley, Lancashire. 640,379 (Associated).

"UROPERM"; for preparations for use in waving the hair (3). By Hair Culture Co., Ltd., 6 Broad Street Place, London, E.C.1. 640,522.

"DRIK"; for cleaning and detergent preparations (3). By Ernest Turner (London), Ltd., Northdown House, Northdown Street, King's Cross, London, N.1. 640,599.

"KERATINT"; for hair dyes and hair rinses (3). By Louis Maurice & Co., Ltd., Lowther Road, Holloway, London, N.7. 640,608.

"STRAN" and "STREL"; for perfumery, toilet preparations (not medicated), cosmetic preparations, dentifrices, depilatory preparations, toilet articles (not included in other classes), sachets for use in hair waving, soaps and essential oils (3). By Thomas Hedley & Co., Ltd., Phœnix Buildings, Newcastle-on-Tyne. 640,773-74.

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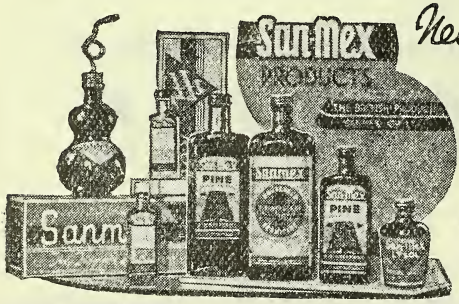

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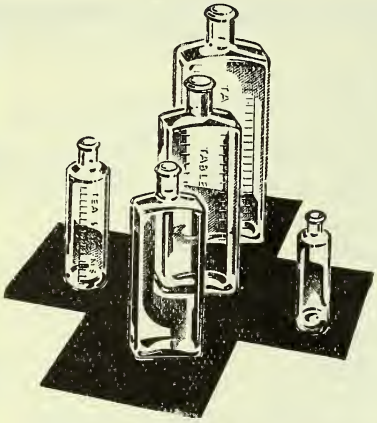

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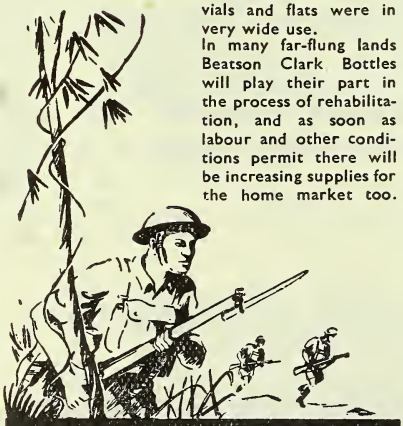

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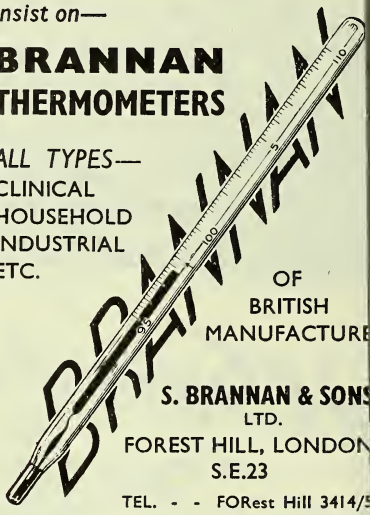

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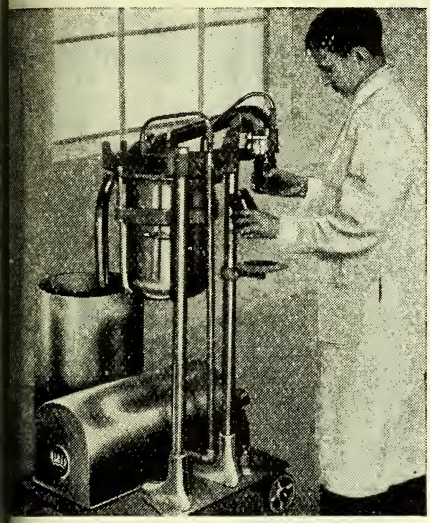

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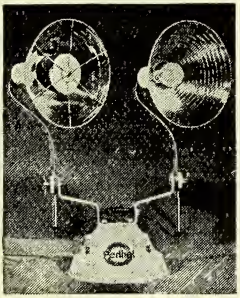

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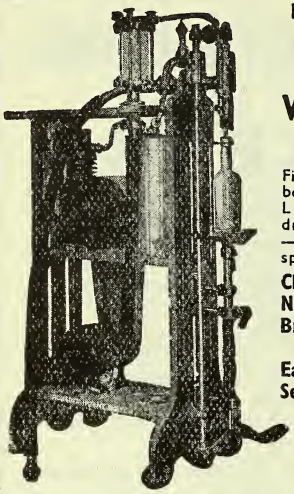

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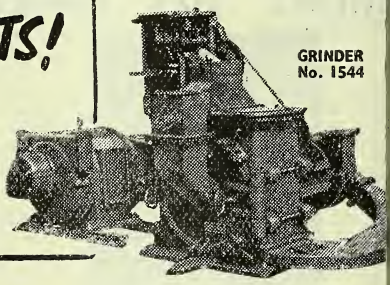

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FOR CONSTIPATION
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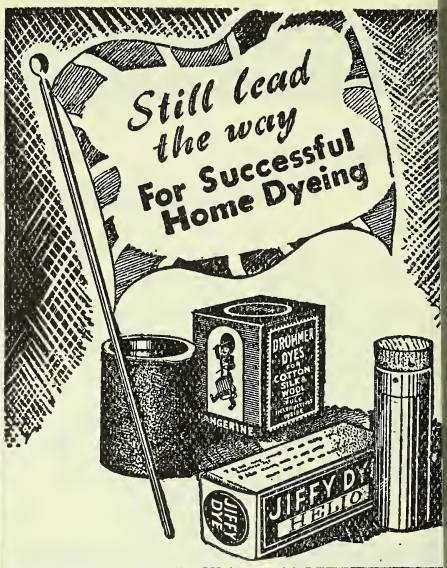

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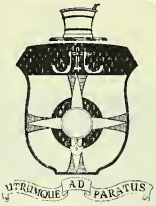

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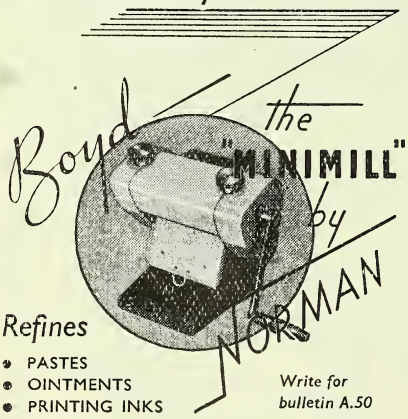

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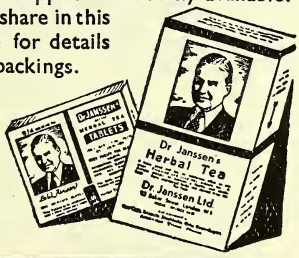

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Insecticide for control of Nits and Head Lice

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'SEMPROLIA' MEDICATED (LETHANE) HAIR OIL IS IN URGENT AND RAPIDLY INCREASING DEMAND

Retail (2-oz.) 1/1½d. including P.T.
List 8/- doz. Packed in 2-dozen outers. PATA

STEMCO LTD., *128, Albert Street, London, N.W.1*
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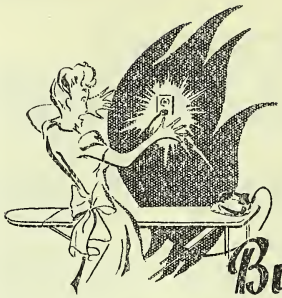

Burns..

Minor burns from various causes respond quickly to application of Butesin Picrate Ointment. The anæsth and analgesic value of this local treatment is so p nounced that the intense pain speedily subsides a application and subsequent infection is gener prevented. Butesin Picrate Ointment can also be commended in the treatment of non-specific ulcers. s lesions in minor lacerations and abrasions. Always re for instant use. Available in 1 and 2 oz. tubes anc 1 lb. and 5 lb. jars.

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(Abbott)

ABBOTT LABORATORIES (ENGLAND) LT
Wadsworth Road, Perivale, Middlesex

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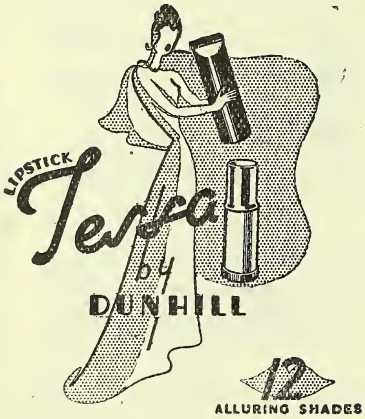

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ENGLAND'S MOST EXCLUSIVE LIPSTICK

A Superfine
Talcum Powder
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A Famous Name.
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Attractively packed in pale pastel pink enamelled all metal sprinkler top tins.

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Always in GREAT DEMAND

This strongly advertised non-alcoholic tonic is a sure seller now and will be a big stand-by in future.

NO LICENCE REQUIRED

Sold by all good Chemists and Stores

Price 5/- & 3/-

M. CALTHORPE & CO., LTD.

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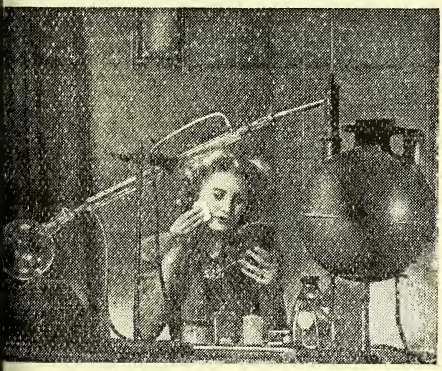
VYRO-NIGHT-A
TONIC & RESTORATIVE



It's Illegal—

Maybe!—to use a distillation apparatus in one's boudoir without a very special permit. The Field organisation, however, with its scientific planning, permits the products of distillation to be used for all fine perfumery and aids to beauty anywhere. Can we offer you our technical help?

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PERFUME COMPOUND SPECIALISTS

FIELD & CO. (AROMATICS) LTD., MOUNT PLEASANT, ALPERTON, MIDDLESEX

Dr. SPICER'S

MALTOBAR

(point-free)

The Malt Chocolate with Calcium, Hæmoglobin and Vitamin D having fine therapeutical properties and high food value

Obtainable from Wholesale Chemists

AFFINED BASIC CHEMICALS LTD

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Telephone: ADVance 1103
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Lines you Need from Clyde Utilities Ltd

Grenodine Pine Disinfectant. Retail price, 1/-. Wholesale price, 8/6 dozen.

Grenoscen Perfumed Disinfectant. Retail price, 2/-. Wholesale price, 16/- dozen.

Grenoscen Sprayer Outfits consisting of Bottle, Spray and Essence. Retail price, 9/6. Wholesale price, 6/8.

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D.D.T. Dusting Powder. Retail price, 1/-. Wholesale price, 8/- per dozen.

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Plastic Lipstick Cases, 5/- dozen, plus 100% tax.

Styptic Pencils in Plastic Cases, 6/8 dozen, plus 33⅓% tax.

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The CHEMIST AND DRUGGIST SUPPLEMENT

This Supplement is inserted in every copy of The Chemist & Druggist

JULY 27 1946

28 ESSEX STREET, LONDON, W.C.2

Prevailing restrictions and heavy demand on space necessitate the holding over of a number of advertisements week by week. As normal press days are in abeyance advertisers are advised to send instructions as early as possible. Advertisements must be prepaid. Box Office Numbers 2/- extra.

SITUATIONS OPEN

/6 for 40 words or less, 2d. for every additional word.

RETAIL (HOME)

ACCOMMODATION available in pleasant country district for qualified Pharmacist and wife, conjunction with a progressive position, of ranch Manager status. Good salary and condi-ons. Successful applicant must become and remain member of an approved Trade Union, and join e Society's Superannuation Scheme. Transfer heme in operation. Give fullest particulars in st instance to "Pharmacist," Coventry and istrict Co-operative Society, Ltd., Smithford reet, Coventry.

BERKSHIRE. Private Chemist requires Un-qualified Assistants (single males preferred) ex-rienced in Dispensing and Counter Work. veral other staff employed. Vacancies will occur ortly. Applicants should send full particulars in st letter. 109/429, C. & D. Office.

BRIGHTSIDE & Carbrook Co-operative Chemists Limited require the services of a capable Quali-ed Lady Pharmacist. Permanent position. Good ages and conditions. Superannuation Scheme in eration. Applications to be made to the General ecretary at 32 Sycamore Street, Sheffield 1.

CHEMIST, many years experience in manufactur-ing control of labour and finishing, adaptable, rmulas for big-selling lines, like to change. Only od salary and commission on introduced lines. 1/483, C. & D. Office.

CHEMIST requires assistance pricing stockbooks. Qualified or unqualified. Temporary 3/4 onths. London. Apply 111/487, C. & D. Office.

COVENTRY. Lester & Williamson, Ltd., Chemists, Great Heath, Coventry, have vacancy r unqualified Assistant for Dispensary, etc. Com-rtable post, easy hours and splendid opportunity r varied experience. Full particulars first letter, arked J.B., c/o Lester & Williamson, Ltd., at ove address.

CHEMISTS' Assistants (Ladies) wanted for clerical work in the N.H.I. checking bureau and stock icing departments. Apply: National Pharma-utical Union, 4-5 Queen Square, W.C.1.

CHEMISTS, qualified, wanted as Branch Managers to take charge of businesses at present under gotiation to purchase. Applications in writing, ving full particulars and endorsed "BM," should forwarded to The Technical Supervisor, Scottish o-operative Wholesale Society, Ltd., Retail Drug epartment, 187, Bogmoor Road, Shieldhall, lasgow, S.W.1.

ENFIELD. A Qualified Pharmacist is required for permanency, no Sunday or holiday duty, ngenial employment with every assistance and nsideration. Apply personally or by letter to harmacist, Dawsons Chemists, Ltd., High Street, nders End, Enfield, Middlesex, Telephone ward 1076.

FAMOUS Surrey Store, opening shortly a fine new Drug, Surgical and Dispensing Department, requires services of fully qualified Pharmacist. Good wages, regular working hours and many other added advantages. Apply Box 111/488, C. & D. Office.

GUY'S HOSPITAL. Assistant Pharmacist required immediately. Salary £320 p.a. (J.N.C. Scale). Hospital experience not essential. Apply Chief Pharmacist, Guy's Hospital, London Bridge, S.E.1.

HEPPELLS (1932) LTD. require a Lady Pharmacist as manageress of small high-class pharmacy near Piccadilly Circus. Apply by letter or phone Victoria 2204. Heppells (1932), Ltd., 70 Vauxhall Bridge Road, London, S.W.1.

LADY Assistant, Unqualified, with dispensing experience, or recently qualified, required for good-class dispensing business. Send usual particulars to Roadnight, 88 Station Road, Sidcup, Kent.

ORRIDGE & COMPANY Employment Agency, Columbia House, Aldwych, W.C.2. Chancery 6446-7. Branches at Southampton and Birmingham. Enquiries invited from Pharmacists and Unqualified persons requiring situations. Many attractive vacancies available. Excellent opportunities existing in progressive permanencies. Locums provided for. No charge to employees except registration fee. Apply to Columbia House in first instance.

POSITION for unqualified assistant in shop. London suburb (Forest Gate-Stratford district). Must be interested in retail trade, salesmanship and a willing worker. Good salary (wages and commission basis). Full co-operation assured. Particulars please to 111/492, C. & D. Office.

QUALIFIED Gentleman required for central high class Pharmacy. Write Managing Director, Loveitt & Bones Ltd., Empire Buildings, Hertford Street, Coventry.

REQUIRED, Dispenser-Book-keeper (experienced). Write: Dr. Green, 56, London Road, Chelmsford.

SECOND qualified lady dispenser book-keeper required for general practice pleasant North London district; weekly half-day, alternative week-ends, no Sundays. Apply, with copies of testimonials, Box 110/467, or telephone in the evenings of Monday, Wednesday or Friday *only*, Hillside 1841.

TWO Qualified Managers required for reopening West End pharmacies. Comfortable posts. Hours 9 a.m.-6 p.m. Half day off, no Sunday duty. Write 112/517, C. & D. Office.

TIMOTHY WHITES & TAYLORS, LTD., have vacancies for experienced unqualified assistants for dispensing and counter duties at a number of pharmacies including Dover, Tunbridge Wells, Oxford, Maidenhead, Leamington, Banbury, Ashford (Kent) and in several districts of London. Good salaries paid to first class men. Convenient interviews arranged. Apply with full particulars to Retail Staff Manager, Timothy Whites & Taylors, Ltd., 70, Vauxhall Bridge Road, S.W.1.

TIMOTHY WHITES & TAYLORS have vacancies for Qualified Pharmacists as managers in various parts of the South of England, including the greater London area. Responsible posts with good progressive salaries are available to capable men. Interviews are arranged to suit applicant's convenience. Apply giving full particulars to Retail Staff Manager, Timothy Whites & Taylors, Ltd., 70 Vauxhall Bridge Road, London, S.W.1.

UNQUALIFIED Assistant required to assist in laboratory. Able to manufacture galenicals and proprietaries and to interview doctors and works chemists. Apply P. Jeyes & Co., Ltd., 6, The Drapery, Northampton.

UNQUALIFIED assistants (male) required. West End. High class trade. No Sunday duties. Write 112/518, C. & D. Office.

URGENT.—Lady Pharmacist wanted to assist unqualified Lady in country business. Charge of dispensing and assist at counter. Easy hours, no Sunday, or holiday duty. Furnished accommodation only. Reply to D. H. Bockham (Chemists), Gt. Shelford, Cambridge.

WANTED, South Coast, Sussex, elderly qualified man (or lady any age) to turn good class drug stores into pharmacy. Good easy job. Financial interest not necessary, although would be considered if really desired. Accommodation found if wanted. Apply 112/513, C. & D. Office.

WANTED, Dispenser for "Leicester United Friendly Societies Medical Association," fully qualified for National Health Insurance Dispensary. Apply Secretary, Mr. W. E. Love, 114, Highcross Street, Leicester.

YOUNG Qualified Manager required for Chemists, Llandudno. Good prospects for keen and reliable man. Accommodation arranged. Apply stating age, experience, qualifications, salary required, etc. R. M. D. Taylor, Ltd., Trinity Buildings, Augusta Street, Llandudno.

LOCUMS WANTED

LOCUM. Pharmacist, lady or gent., required Aug. 12-24. Efficient staff. Easy hours and easy duties (mainly simple dispensing). W. M. Nicoll, The Bridgnorth Pharmacy, Bridgnorth, Shropshire.

QUALIFIED Locum wanted for 2 weeks in August or September. Either sex. Westminster district. Kindly state particulars and salary required to A. J. Cooper, 15 Sheen Common Drive, Richmond.

WHOLESALE

A REPRESENTATIVE is required for a high-class branded and Nationally advertised product in each of the three following areas.— (1) Eastern Counties (Lincs., Norfolk, Suffolk, Cambs., Hunts., and Beds.). (2) South Eastern Counties (Essex, Kent, Sussex and possibly Hampshire). (3) Southern and S. Mids. (Dorset, Wiltshire, Berks., Oxfordshire, etc.). Applications are invited from active Representatives in the above areas, who have an established connection with good-class retail chemists, and who wish to add a non-competing line, on commission only, to their existing representations. Certain other combinations of the above Counties may be acceptable. Highest references given and required. Replies in strict confidence to 112/516, C. & D. Office.

A UNIQUE opportunity has arisen for the appointment of a personal assistant to the sales manager to a toilet goods manufacturer. The applicant chosen will receive a thorough training in successful sales methods, and will have ample opportunity to develop his ambitions. His age should be 18 to 25. Only those having a reserve of initiative, energy and loyalty need apply. 112/520, C. & D. Office.

A PRODUCTION Manager is required to t charge of the manufacture, including pack ing, of a complete range of high quality toilet p ducts now in course of development. Good techni qualifications and experience are essential, toget with a sound, practical knowledge of modern p duction methods. The man oppointed will expected to assume the major responsibilty for design, lay-out and installation of the plant a equipment. Write Box 2694, c/o, Whites, Lt 72/78 Fleet Street, London, E.C.4.

APPLICATIONS are invited for positions shipping, invoice and progress clerks (male female) with ability to type. Knowledge of drug trade is preferred. The work is interesting a offers scope for ability and the positions are p sionable. London area. Apply 112/527, C. & Office.

CHEMIST, P.Pharm. or equivalent, required Gelatin Products, Ltd., manufacturers of capsulated products for the pharmaceutical a allied industries, for their laboratories at Slou Experience in laboratory control of pharmaceuti processes in preparation of ethical products essential. Experience in making vitamin assays physical methods an advantage. Please give det of qualifications, experience, age and salary quired to General Manager, Gelatin Products, Lt Oxford Avenue, Trading Estate, Slough, Bucks.

CHIEF Chemist required by leading cosmetic a pharmaceutical manufacturers. Highly qualif and thoroughly experienced. Required to dev majority of time to research but also to take sponsibility for manufacture, buying of raw materi and direction of work for two qualified assistar Commencing salary over four figures and prospe for right man unlimited. Write stating age, qua fications, posts held and present salary. Strict confidence. 111/504, C. & D. Office.

EXPORT Clerk required to assist Manager, Mar facturing Chemists. Applicants must be expe enced in invoicing and familiar with export reg lations, accurate at figures with shipping experien Excellent prospect for conscientious, hard work Experience in the preparation of returns and stat tics an advantage. Applications stating age, married, particulars of experience, salary requir to Box No. 935, L.P.E., 110 St. Martin's Lar W.C.2.

FIRST-CLASS Representatives calling on groce confectioners, chemists, licensed trade, etc., handle medicated products of highest quality, whi are attractively packed and supported by adve tising. Terms: commission basis and only 'to notch' men will be considered. Write in full detail stating lines being carried at present 111/499, C. & D. Office.

FOREMAN required by manufacturing chemis London. Experienced packing pharmaceu cal specialities, ointments and creams, etc. Wri 111/502, C. & D. Office.

FOREWOMAN for manufacturing chemists supervise packing of medicinal and cosmet products. Apply Markwell, Edwards and Co., Ltc 589, High Road, N.12.

FULL-TIME representatives required on vario Provincial territories. Applicants must ha sound connections with chemists, stores, etc., and l able to produce results. Salary, commission ar expenses. Reply, stating full particulars of exper ence and territories covered, Emmet Distributir Co., Ltd., 140 Park Lane, London, W.1.

GLASSWORKS Manager. Small works in S. En land producing scientific and medical glasswa has vacancy for fully experienced Manager wi technical knowledge and experience; to take fu charge and work under own initiative. Sala £450-500 p.a. according to ability. Write in co fidence, giving full particulars of capabilities, e perience, etc. to 111/500, C. & D. Office.

FIRST-CLASS Representative required., full time, for Nationally advertised chemist line. Must have existing connection in South-West England and South Wales. Knowledge of grocery trade an advantage. Reply to Box H.424, Erwoods, Ltd., 30, Bouverie Street, London, E.C.4.

INDIA. Parke, Davis & Co. require young, unmarried, energetic pharmacists as medical representatives in India. Intensive training in England will be given before proceeding overseas. The opportunities for advancement ar excellent. Apply, by letter only, giving complete details, to "India Dept.", 50 Beak Street, London, W.1.

LADY Pharmacist required by well-known firm of Pharmaceutical Manufacturers, near London, to assist in Ampoule Department. Ability to control female staff essential. Reply, giving details of previous experience, to Box 110/464, C. & D. Office.

MARKETING. Applications are invited from Pharmacists for an executive position connected with the distribution of veterinary products, both to the profession and to the trade. Applicants must have a good veterinary experience. The position is progressive and pensionable (contributory pension scheme) and is one of considerable interest. Write, giving full particulars of age,, experience and salary required, to the Manager, Veterinary Department, Burrough Wellcome & Co., 12 Red Lion Square, W.C.1.

MANUFACTURERS of well-known Pharmaceutical products require Representatives with experience of medical propaganda. Territories vacant: Greater London, and Southern Counties. Apply giving particulars of experience, age and salary required to 111/505, C. & D. Office.

MALE or female Cost and Invoice Clerk required. Must be fully conversant with Surgical Sundries. Write stating experience and salary required to the Medical Supply Association, Ltd., 167 Grays Inn Road, W.C.1.

REPRESENTATIVE required by firm of manufacturing chemists to represent them in Scotland carrying their own proprietary articles and sundries. Salary, commission, expenses and car allowance. One with existing connection preferred. 109/417, C. & D. Office.

REPRESENTATIVE required for well-known Luxury Toilet Preparations (A-Class) to be carried as an additional line on commission basis, to call on Chemists, Hairdressers, Department Stores (Perfumery and Drug Section) for various provincial areas. Only those who are well introduced to retailers should apply stating present lines carried and names of firms represented. Enclose reference in first letter. 104/246, C. & D. Office.

REQUIRED for East London Factory, Works Manager. Must be experienced and able to control labour. Excellent prospects for ambitious man. Box 111/486, C. & D. Office.

REQUIRED by well-known Company of Manufacturing Chemists, N.W. London, a Works Foreman, or Chemist, possessing extensive tableting and manufacturing experience: used to the handling of pharmaceutical plant. Permanent and progressive position, with excellent prospects for the right man. Please give experience, age, salary required, etc., in strict confidence to 110/451, C. & D. Office.

SALESMEN required for most areas to sell to chemists and hairdressers best quality raw materials for manufacturing toilet goods. Large range of goods available including bottles and jars. Only first-class salesmen who can prove results who will be given liberal drawing account during trial period need apply. Salary, commission and expenses after trial. Send full details. 112/521, C. & D.

STOCK Keeper or Order Clerk required for Surgical Sundry Dept. Only fully experienced need apply, male or female. Permanent position assured. Write giving full particulars and salary required to The Medical Supply Assn., Ltd., 167/173 Grays Inn Road, W.C.1.

TABLET Maker required by London Wholesale Druggists. A knowledge of pearl and sugar coating would be of advantage. 112/529, C. & D. Office.

TABLET Maker required by reputable firm of manufacturing chemists in the Midlands. Applicants must be fully conversant with all kinds of tablet making and must understand rotary machines. Apply in first instance to 111/493, C. & D. Office.

TABLET Maker required by a London firm of Manufacturing Chemists. Applicants must have had experience of all kinds of Tablet making and Sugar coating and must understand Rotary machines. 5-day week. Apply in the first instance to Box 110/466, C. & D. Office.

TABLET Maker required by manufacturing chemist, West London. 5-day week. Details of experience and salary required to Box 205, Smiths', 100 Fleet Street, E.C.4.

TRAVELLER required for various parts of the country by Yorkshire firm of manufacturing chemists, to call upon hairdressers and chemists. Commencing on commission basis only. If car owner kindly state. 112/528, C. & D. Office.
Office.

TRAVELLERS wanted to sell Powder Puffs on commission only, to wholesalers, stores, chemists, etc. Apply 112/522, C. & D. Office.

TRAVELLERS wanted to handle additional quick-selling lines, must have connection with chemist shops and departmental stores. Box PP.2812, Samson Clark, 61 Mortimer Street, W.1.

WEST MIDLANDS. Wholesale Chemists require recently qualified Pharmacist, experienced in preparation of sterile products. 112/508, C. & D. Office.

WELL-KNOWN firm of manufacturers of pharmaceutical preparations requires the services of a representative for India. Applicants must have had similar experience in India and be capable of organising and controlling other representatives, some of whom will be native Indians. Apply, stating age, experience and salary required, to 108/399, C. & D. Office.

WEST of England Wholesale and Manufacturing Druggists' require young Pharmacist to assist manager of their galenical department. Must be keen and energetic and preferably have some experience of handling aseptic solutions and a knowledge of modern sterilisation methods. Apply with full particulars to 111/496, C. & D. Office.

WHOLESALE (OVERSEAS)

BOMBAY. Important pharmaceutical firm requires pharmacist as assistant to managing director. Qualification and general knowledge of the wholesale and manufacturing trade essential. Splendid opportunity for an able man. Applicants can be interviewed in London. Write in confidence to 108/392, C. & D. Office.

SITUATIONS WANTED

2/6 for 18 words or less, 1d. for every additional word.

RETAIL (HOME)

DISPENSER, Lady, Hall Certificate, 5 years' experience, seeks post Scotland, chemist or doctor. 111/495, C. & D. Office.

EXPERIENCED Manager desires change of district. Country branch near sea preferred. Living accommodation essential. South or South-West Counties. M.P.S. Scot. (52), married. Excellent record business management and improvements, West End, good-class family type, agricultural and coast. N.P.U. Scheme with early succession if agreeable. Interview Sundays if possible. 111/497, C. & D. Office.

PHARMACIST, manager (39), married, desires change to similar position. Living accommodation essential. 111/494, C. & D. Office.

UNQUALIFIED energetic young man, fully experienced dispenser, knowledge of photography requires first-class post preferably in Scotland or Northern Counties. Responsibility welcomed. 111/507, C. & D. Office.

WHOLESALE

EIRE. Well-known Representative (L.P.S.I., hons.), after eight years with prominent British house calling on chemists in Eire, seeks change. Would represent British or Irish house or would consider first-class sole agencies. Age 33. Own car. Capable and energetic. Box 110/472, C. & D. Office.

PHARMACIST (31), married, wide experience in retail, wholesale and manufacturing, desires position as Representative with reputable firm. Edinburgh district preferred. Particulars and salary to 111/506, C. & D. Office.

SALES Manager (M.S.M.A.). Wide experience of marketing, and general business management desires change. Enquiries invited. 111/501, C. & D. Office.

SUCCESSFUL Sales Manager, qualified fully, experienced all sides sales control, including medical propaganda, seeks post offering earnings over £1,125. 109/438, C. & D. Office.

LOCUMS SEEKING ENGAGEMENTS

"LOCUM. HALL." 2-3 weeks, between Aug. 11-Sept. 12. Hospital, General, N.H.I. experience. Part-time considered. "Dispenser," The Dispensary, Carlisle.

APPOINTMENTS

BIRMINGHAM UNITED HOSPITAL

Resident Pharmacist required for the QUEEN ELIZABETH HOSPITAL. Commencing salary £220 p.a. plus full residential emoluments (valued for Superannuation purposes at £100 p.a.). Apply in writing, giving age, qualifications and experience, with copies of recent testimonials, to the Chief Pharmacist, Queen Elizabeth Hospital, Birmingham, 15.

CITY OF MANCHESTER, PUBLIC HEALTH DEPARTMENT

FIRST ASSISTANT PHARMACIST—WITHINGTON HOSPITAL (1,150 beds). Applications are invited for the above-mentioned appointment. Candidates should possess a qualification granted by or recognised by the Pharmaceutical Society of Great Britain (Ph.C. or B.Pharm. preferred). The basic annual salary scale commences at £360 and rises to a maximum of £380 together with a temporary cost-of-living wages addition amounting at present to £60 in the case of a male officer and £48 5s. in the case of a female officer. Full particulars may be obtained from the Medical Superintendent at Withington Hospital and all applications stating age, qualifications and experience, are to be addressed to him. The appointment is subject to the Corporation conditions of service and the closing date for the receipt of applications is August 24, 1946. Canvassing in any form, oral or written, direct or indirect, will be a disqualification. The salary scales applicable to this appointment may be reviewed in the event of the Corporation adopting National salary scales.

PHILIP B. DINGLE,
Town Clerk.

Town Hall, Manchester, 2.
July 12, 1946.

CHEDDLETON MENTAL HOSPITAL, NR. LEEK, STAFFS.

DISPENSER required with Apothecaries Ha Certificate; resident or non-resident. Salary i accordance with Recommendations of Joi Negotiating Committee (Hospital Staffs). Ap pointment subject to Provisions of Asylum Officers' Superannuation Act. Applications t the Medical Superintendent.

RAMPTON STATE MENTAL INSTITUTION, NR. RETFORD, NOTTS

WANTED. PHARMACIST (Female). Scale o Salary:— £250 x £15 x £325 per annu (basic), plus consolidation addition, making £313 at the minimum and £397 at the maximum plus quarters (consisting of a bedroom an sitting room) valued at £40 per annum fo Superannuation purposes. Food is provided a cost price (at present 14s. per week). Subjec to the issue of a certificate of qualification b the Civil Service Commissioners the post woul be pensionable under the Civil Service Superan nuation Acts. Further particulars will be pro vided on request. Amenities such as tenn courts, badminton and a swimming pool, etc are available free of charge.

Applications, stating age, experience and refer ences, etc., should be sent to the Medica Superintendent.

SURREY COUNTY COUNCIL

PHARMACIST required at SURRE COUNTY SANATORIUM, Milford, N Godalming. Must possess Ph.C. or Chemis or Druggist qualification. Salary on grad £370 by annual increments of £15-£445 incl The vacancy will occur in December, 1946

SENIOR ASSISTANT PHARMACIST re quired at KINGSTON COUNTY HOSPITAL Wolverton Avenue, Kingston-on-Thames. Can didates must possess Ph.C. or Chemist o Druggist qualification, and should have not les than three years hospital experience. Com mencing salary on grade £365 by annual incre ments of £15 to £440 p.a. inclusive. ASSIST ANT PHARMACISTS at ST. HELIER COUNTY HOSPITAL, Wrythe Lane, Carshal ton, BOTLEY'S PARK HOSPITAL, Chertsey Must possess Ph.C. or Chemist or Druggis qualification, salary on grade £320 by annua increments of £15-£400 p.a. inclusive. Appl to Medical Superintendent of appropriat Hospital.

LOCUM PHARMACIST (Senior) at £8 10s p.w. inclusive required at ST. HELIER COUNTY HOSPITAL, Wrythe Lane, Car shalton. LOCUM PHARMACIST (Asst.) a £7 10s. p.w. inclusive required at ST. HELIER COUNTY HOSPITAL, Wrythe Lane, Carshal ton, BOTLEY'S PARK WAR HOSPITAL Chertsey.

Candidates must possess Ph.C. or Chemist o Druggist qualification. Apply in writing to Medical Superintendent of appropriate Hospital.

BUSINESS OPPORTUNITIES

12/6 for 36 words or less, 3d. for every additional wo

COMMERCIAL Artist, specialising in manufa turing and wholesale chemists' lines, requi commissions for the design of showcards, displa cartons and all kinds of packaging and sh material. Consultant in all kinds of reproductio Write to Alan Dick, 3 Kingsdown Road, Tankerto Kent.

FIRM of Tablet Manufacturers with well-equipped plant are now able to undertake the manufacture and packing of any sized tablets. Customers' own material preferred. Excipients supplied. Contracts arranged if desired. 108/387, C. & D. Office.

BUSINESSES WANTED

7/ 6 for 40 words or less, 2d. for every additional word.

HILLIER, PARKER, MAY & BOWDEN, Surveyors and Valuers, 77 Grosvenor Street, W.1, have applications for several sound and progressive single-shop Businesses occupying premier trading positions in London and Provinces, or a Group Concern would be seriously considered. Others contemplating sale or their solicitors are invited to write for further information to Hillier, Parker, May & Bowden, 77 Grosvenor Street, W.1.

AGENCIES

12/6 for 36 words or less, 3d. for every additional word.

AGENT calling on Chemists required to carry as additional line small bottles and jars. Box ? ? ?

BUYING Agent with premises in London to cover the English territory for a well-known Scottish toilet house. As this is a sole agency for the whole country please state coverage. 112/523, C. & D. Office.

BUYING Agent requires Sole Distribution for Scotland and N. Ireland. Patent medicines, toilets or sundries. No clashing lines carried. Purchasing all goods on cash terms. Goods capable of large turnover required. Advertiser—108/374, C. & D. Office.

FIRM of Agents in Eire are open to consider sole representation for British and Continental firms in the following lines: Cosmetics, toilet preparations, and perfumes. Only firms with well-advertised products considered. Particulars to (Dept. 6), 7 Church Avenue, Drumcondra, Dublin, Eire.

IMPORTANT Spanish Distiller and Exporter of Essential Oils and Crude Drugs require well introduced and active selling agent established in London for the United Kingdom. Write to Manuel Alvarez Moreno, Madrid, Spain, Adrian Pulido 7-9.

MANUFACTURER'S Agent with extensive connection amongst wholesalers in all principal cities and towns in England and Wales (400 open a/c's) seeks additional agency on commission terms. Regular personal calls and complete coverage. 111/498, C. & D. Office.

MANUFACTURER of Pharmaceutical Products requires agents with established connections amongst wholesale and retail chemists, stores, etc. Vacancies London and Provinces. Fullest particulars, including exact area with frequency of calls. 112/514, C. & D. Office.

PHARMACEUTICAL Specialities. Household Medicinal Products, Toilet Sundries, etc. Large Canadian sales agency wishes to represent English manufacturers. Coast-to-coast sales coverage of retail-wholesale drug trade. Write Laurentian Agencies, 429 St. Jean Baptist Street, Montreal, P.Q., Canada.

REPRESENTATIVE, well-known majority chemists, stores, Co-ops., English Provinces and N/S Wales, desires contact established and reputable houses re agencies upon commission basis. 112/511, C. & D. Office.

WELL organised concern, capable of handling all classes of drug, fine chemicals, packed pharm. surgical products, etc., seeks exclusive representation for British manufacturers in Siamese territory. C.I.F. terms to any amount. Complete and efficient sales organisation. Correspondence invited. Write 110/456, C. & D. Office.

U.K. REPRESENTATIVE required by well-known Spanish export house for herb, drug and chemical lines. Must be experienced and trustworthy individual or firm with knowledge of Spanish a good advantage. Write stating full particulars to 112/512, C. & D. Office.

WELL-KNOWN Manufacturers and distributors in Eire are open to consider agencies for reputable chemical and pharmaceutical manufacturers. They are also prepared to manufacture under licence. Their travellers call on chemists, wholesale and retail stores, Co-operative Sovieties, etc., all over Eire. They also call on surgical and medical specialists, general medical practitioners and dentists. Please address all inquiries to CD Box 506, c/o Erwoods, Ltd., 30 Bouverie Street, London, E.C.4.

WANTED

7/6 for 36 words or less, 2d for every additional word.

A GOOD price offered for Cameras, Enlargers and all Photographic Apparatus, Exposure Meters, Tripods, good Binoculars, Microscopes, Cine-Cameras and Projectors, prompt cash. Wallace Heaton, Ltd., 127 New Bond Street, London, W.1.

A FIRM of selling agents open to offers of cosmetic and beauty preparations of all types. 112/515, C. & D. Office.

ANY quantity Saccharine 550, powder or tablets, urgently required. Box 393, c/o Pool's, Aldwych House, London, W.C.2.

AUTOMATIC Cream Filler wanted at once; big price paid. Shavex Co., Bavaria Road, Holloway, N.19.

BOTTLES, 4-oz., urgently required. Ozonol Laboratories (1930), Ltd., New Wharf Road, N.1. Telephone: Terminus 4727.

BOTTLES, No. 3 Tablet Size, screw caps, urgently required, up to 200 gross wanted. Samples and prices to: Three Crowns Tablet Company, 21-25 Derringham Street, Hull.

BOTTLES Required. 4 oz. plain or panel, 8 oz. tables. 8 oz. ribbed lotions. Cork mouth or screw cap. Good price paid. Nicoll, The Bridgnorth Pharmacy, Shropshire.

DISTRIBUTORS, LTD., Crown Court, Crown Street, Halifax, desire to purchase cosmetics, packed specialities, surgical dressings, hair nets, etc. Samples and prices to the above address.

EDIBLE Sheet and Powdered Gelatin required in large quantities. 965/970, C. & D. Office.

MANUFACTURERS require, for own use, regular quantities (large or small) of Lactose B.P., or Edible and Citric Acid. 106/328, C. & D. Office.

ONE drachm and ½ oz. Perfume Bottles for Export. Will buy or exchange for 1 oz. or 2 oz. Toilet Bottles or other types. Harman Dietetic Laboratories, Ltd., 109, Cricklewood Broadway, N.W.2. Telephone Gladstone 1084.

PHENOLPHTHALEIN, Glycerine and Saccharine tablets required in any quantity. 111/482, C. & D. Office.

PEPSIN POWDER B.P. Wanted in 1-cwt. lots. 112/509, C. & D. Office.

PHENOLPHTHALEIN B.P. required in 1 cwt. lots. Offers to 108/390, C. & D. Office.

SACCHARIN Tablets wanted by Pharmacist. 110/447, C. & D. Office.

SEEDS drawers wanted; any quantity. Sowerbutts, Ltd., Ashton-under-Lyne.

STEARIC Acid Triple Pressed required in large quantities. 965/969, C. & D. Office.

STEARINE. Large quantities required. Melting points 118 F. to 132 F. Offers and quantity to 109/424, C. & D. Office.

TARTARIC ACID B.P. required in 1 ton lots. Offers to 108/391, C. & D. Office.

URGENTLY required for Export orders, 3 oz. and 6 oz. white glass bottles, screw cap or cork neck to fit carton 2⅜ x 5½ x 1 and 3 in. x 6½ x 1¼ respectively. Please advise quantities and prices of any available together with samples to: M. Beetham & Son, Imperial Lane, Cheltenham.

WANTED, any quantity Pepsin Powder, Phenazone, Amidopyrine, Papaverin Hydrochloride. Offers to 109/406, C. & D. Office.

WANTED, .550 Saccharin Powder, also bulk supplies Standard Saccharin Tablets. Large or small quantities taken. Replies to W. Pearce, 143 Endike Lane, Hull. Tel. No. 10986.

WANTED. 2, 3 or 4-drachm bottles, and 1 oz. bottles. Any quantity. 110/448, C. & D. Office.

WOODEN CYLINDRICAL KEGS, plywood, fibre, etc., with lids; new and second-hand, various sizes. GROUND STOPPERED GLASS JARS, 7 or 10 lb. sizes, two or three dozen wanted. 109/412, C. & D. Office.

8 OZ. Plain Medicals, 8-oz. ribbed Ovals, 2 2½-oz. Panels; divisioned Cartons to hold any of these. Samples and prices to S. Tatlow & Co., Ltd., Eckington, Sheffield.

26 OZ. and 13-oz. Wine or Champagne Bottles required. 625/524, C. & D. Office.

EXPORT TRADE

CANADIAN Drug Wholesaler with coast to coast distribution is at present in London and will discuss marketing arrangements in the Dominion. 112/525, C. & D. Office.

EXPORT MARKETS.—An opportunity occurs for manufacturers of Patent Medicines or Cosmetics anxious to develop their overseas trade on an economical basis. A Pharmaceutical House is willing for their Export Manager, who is shortly revisiting Australia, India and the Middle East, to act on behalf of 1 or 2 non-competitive lines in return for share of expenses. Apply with details to 109/421, C. & D. Office.

MANAGING Director of Export Firm is visiting South Africa shortly and invites propositions from manufacturers and other Houses in this country interested in developing exports in this market. 108/401, C. & D. Office.

MANUFACTURERS of patent medicines, cosmetics, toilet goods and sundry articles are requested to communicate with us for sole distributions in India, Burma and Ceylon. Payments will be made at home. Send samples with trade terms by Air Mail. The British Products Corporation, 7/10 Botawalla Building, Elphinstone Circle, Fort-Bombay (India).

MISCELLANEOUS SALES

12/6 for 36 words or less, 3d. for every additional word.

DOUBLE Rivetted Cross-tube Boiler, by Farrow of Newark. 6 ft. high x 3 ft. dia., pressure 100 lbs. Complete entirely, with all valves, syphons, cocks and injector fittings. Adjustable for low pressure in addition to high pressure of 120 lbs. per inch. It is in complete sound order and has had very little use. Price £85. Also one Vel-spa Water Softener, £5. 112/510, C. & D. Office.

EARTHENWARE Jars and Bottles for sale. Various sizes from ½ pint to 3 gallons. Considerable quantities available. Gunn, Whitepost, London Road, Rayleigh, Essex.

FILM Dryer, Ensign electric. 240-v. 2 compartments each taking 24 films, adjustable heat but without rods and clips. 6 ft. 6 in. x 2 ft. x 1 ft. 3 in. Splendid condition and working order. Offers to 111/485, C. & D. Office.

FOR Sale, number of flat-top Trolleys, 2ft. 11in. long x 14 in. high, oak tops, four 10 in. dia. rubber-tyred wheels. £4 4s. each delivered. Reed Brothers (Engineering), Ltd., Cuba Street, Millwall, London, E.14.

FOR Sale, 5,000 to 10,000 strong cartons, 7 in 7 in. x 6½ in., in new condition, with r divisions, to hold 4 dozen 1 oz. glass jars. Pr 7⅜d. each plus carriage. Apply Acra Products, Lt 3, King's Head Buildings, Cloth Hall Street, Hi dersfield.

POWDER Mixer. Pascall No. 1 Pindisc Mill w condensor and magnetic separator. 3 h.p. mo capacity 2 cwts. hour. Unpacked from makers livery, owing change premises. Makers price £1 What offers? 111/491, C. & D. Office.

SPECIAL offer to clear, 3½ in. and 4 in. nail fil nippers and tweezers. Surgical and dress scissors. Keen prices, quick deliveries. Trusc Sales, 16 Wildwood Avenue, Bricket Wood, Watfo

SPECIE Jars, in good condition, with gilt me caps, 24 in. x 15 in., 'Rhubarb.', 22½ in. 14 in. 'Pot. Bitart.', 21 in. x 10 in.", 'Mag Carb.', 21 in. x 10 in., 'Ras. Corn. C.' Offers t Eucryl, Ltd., Southampton.

WILKINSON Standard Size Super Speedy Oi ment Mill (brand new, unused) for belt dri for sale. Can be viewed in Greater London ar 112/526, C. & D. Office.

BUSINESSES FOR DISPOSAL

7/6 for 40 words or less, 2d. for every additional wor

FOR Sale. Drug and Toilet Shop, Middles half hour London. Average takings £35-£ (without prescriptions). Ideal position for qualifi chemist. Takings could almost be doubled. Livi accommodation, large garden, long lease, low re Price £1,500, including stock, etc. 111/490, C. D. Office.

HERBALIST, Hygienic Stores. Long lease, ma street; house contains 4 bedrooms, bathroo sitting-room, kitchen, study, brick-built sheds. Pri for stock, fittings, fixtures, cases, electric fittin also complete home, goodwill, marvellous trade; t is genuine. No offers below £3,000. 109/432, C. D. Office.

IPSWICH. Main road D.F. Shop, Shop parlo kitchen, scullery, two bedrooms, two attic roo and yard. Herbalist and Druggist Sundries. Open on Nov. 1, paying business. Agreement three ye with option. All electric fittings and electric cook own property. New shop blind. House complete furnished. Reason for sale, going abroad. Sto fixtures, fittings and home £600. Particulars to 8 St. Helen Street, Ipswich.

OLD Established Chemist Shop, including fixtu and fittings and excellent upper part to be l or sold near Hove Station. Owner retiring. App 111/489, C. & D. Office.

PRIVATE Limited Company for sale. Also reg tered trade mark "Samsol". Suitable for ha toilet preparations. No stock or quotas include Would suit anyone starting business. Apply by lett to Messrs. Tonair Health Products, Ltd., 282 Ba Street, Glasgow, C.2.

TOILET and Drug Store for Sale in busy distric S.W. London. Good opportunity for someo energetic. Price, £1,500 plus stock at valuatio 112/524, C. & D. Office.

PARTNERSHIPS

QUALIFIED experienced chemist requires acti partnership in wholesale manufacturing pac ing or similar business investment. £2,000 to £3,00 111/503, C. & D. Office.

PARTNER wanted for the cosmetic and toilet pr paration, wholesale trade. Capital require £2,000 half share. 110/457, C. & D. Office.

PARTNER with capital wanted by experience business man, 45 years old, to start a new kin of drug store incl. a small manufacturing. For th moment engaged as a supervisor and assist. chemi with a manufacturing chemist. 111/484, C. & D Office.

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PENICILLIN
DENTAL CONES-M&B

Penicillin Dental Cones—M & B are designed for prophylactic use following extraction. The cones may be inserted in the sockets or crushed and the powder kept in place by a gauze tampon soaked in collodion. Sutures to close the socket may be used where indicated.

Each one contains Penicillin (Calcium Salt), 1000 units, Sulphathiazole gr. ½ and Sulphanilamide gr. ½. They will retain their potency for approximately four months under ordinary cool conditions and longer when refrigeration is possible. The special design of the cones is exclusive to M & B.

Containers of 100 cones.

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MAY & BAKER LTD.

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PHARMACEUTICAL SPECIALITIES (MAY & BAKER) LTD., DAGENHAM

9128

Felsol POWDER for ASTHMA

Resuming Normal Supplies

Although all demands for FELSOL cannot yet be met as quickly as we should like, we are pleased to announce that production is now steadily increasing week by week. Supplies therefore are not so limited as previously and the delays in deliveries caused through war-time hindrances are gradually being overcome.

With the efforts now being made to resume normal supplies, it is hoped that, in the near future, all orders for the standard size will be executed without delay. For the time being the large size must still be reserved for physicians' private prescriptions, hospital and N.H.I. dispensing purposes.

In thanking pharmacists for their patience and co-operation, we again apologise for inconveniences caused by circumstances beyond our control.

P.A.T.A.

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Telephone CLErkenwell 5862. Cables 'Felsol, Smith, London.

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